

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE		PAGE OF PAGES	
				1 3	
2. AMENDMENT/MODIFICATION NO. P00005		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. PR-OW-20-00062	
6. ISSUED BY CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001		7. ADMINISTERED BY (If other than Item 6) CODE		5. PROJECT NO. (If applicable)	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ESS GROUP, INC. Attn: ROBERT ERICKSON 10 HEMINGWAY DR # 2 RIVERSIDE RI 02915		(x)		9A. AMENDMENT OF SOLICITATION NO.	
				9B. DATED (SEE ITEM 11)	
		x		10A. MODIFICATION OF CONTRACT/ORDER NO. EP-C-16-006 68HE0C18F0817	
CODE 019131986		FACILITY CODE		10B. DATED (SEE ITEM 13) 07/20/2018	

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.  
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required) (b)(4)  
See Schedule

**13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Unilateral - Option to Extend the Term of the Contract 1552.217-71, Limitation of Costs (b)(4)

**E. IMPORTANT:** Contractor ☒ is not ☐ is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

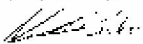
DUNS Number: 019131986

The Purpose of this Modification is to:

- Exercise Option Period 2 in the (b)(4)
- Obligate funding on Option Period 2 in the (b)(4)

TOCOR: Shera Reems Max Expire Date: 01/31/2021 Invoice Approver: Shera Reems Alt Invoice Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

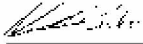
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Nicholas Bisher	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 12/03/2019

Previous edition unusable

## CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
EP-C-16-006/68HE0C18F0817/P00005PAGE OF  
2 3NAME OF OFFEROR OR CONTRACTOR  
ESS GROUP, INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>App: Forrest John</p> <p>LIST OF CHANGES:</p> <p>Reason for Modification: Exercise an Option</p> <p>Period Of Performance End Date changed from 31-JAN-20 to 31-JAN-21</p> <p>Total Amount for this Modification: \$0.00</p> <p>New Total Amount for this Version: (b)(4)</p> <p>New Total Amount for this Award: (b)(4)</p> <p>Obligated Amount for this Modification: (b)(4)</p> <p>New Total Obligated Amount for this Award: (b)(4)</p> <p>CHANGES FOR LINE ITEM NUMBER: 3</p> <p>Obligated Amount for this Modification: (b)(4)</p> <p>Exercised option</p> <p>CHANGES FOR DELIVERY LOCATION: CPOD</p> <p>Delivery Date Added : 01/31/2021</p> <p>NEW ACCOUNTING CODE ADDED:</p> <p>Account code:</p> <p>19-E4-87FL-000BL7-2505-2087LE4002-001</p> <p>Beginning FiscalYear 19</p> <p>Ending Fiscal Year</p> <p>Fund (Appropriation) E4</p> <p>Budget Organization 87FL</p> <p>Program (PRC) 000BL7</p> <p>Budget (BOC) 2505</p> <p>Job # (Site/Project)</p> <p>Cost Organization</p> <p>DCN-LineID 2087LE4002-001</p> <p>Quantity: 0</p> <p>Amount: (b)(4)</p> <p>Percent: (b)(4)</p> <p>Subject To Funding: N</p> <p>Payment Address:</p> <p>Payment:</p> <p>RTP Finance Center</p> <p>US Environmental Protection Agency</p> <p>RTP-Finance Center (AA216-01)</p> <p>109 TW Alexander Drive</p> <p>www2.epa.gov/financial/contracts</p> <p>Durham NC 27711</p> <p>Period of Performance: 07/20/2018 to 01/31/2021</p> <p>All other terms and conditions remain unchanged</p>				

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>			1. CONTRACT ID CODE		PAGE OF PAGES		
					1      5		
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00006		See Block 16C		PR-OW-20-00176			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD							
US Environmental Protection Agency							
26 West Martin Luther King Drive							
Mail Code: W136							
Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)		9A. AMENDMENT OF SOLICITATION NO.	
ESS GROUP, INC.							
Attn: ROBERT ERICKSON						9B. DATED (SEE ITEM 11)	
10 HEMINGWAY DR # 2							
RIVERSIDE RI 02915							
				x		10A. MODIFICATION OF CONTRACT/ORDER NO.	
						EP-C-16-006	
						68HE0C18F0817	
						10B. DATED (SEE ITEM 13)	
						07/20/2018	
CODE 019131986		FACILITY CODE					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)				(b)(4)			
See Schedule							
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>							
CHECK ONE		A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
		B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).					
x		C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Bilateral - Mutual Agreement of the Parties					
		D. OTHER (Specify type of modification and authority)					
<b>E. IMPORTANT:</b> Contractor <input type="checkbox"/> is not <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 019131986							
The Purpose of this Modification is to:							
1. Decrease the total cost of Option Period 1 to account for the need to descope work related to stormwater sampling that could not occur due to an unseasonably dry fall 2019. This effort is shifted to Option Period 2 resulting in an increase in total cost to Option Period 2. Further, this modification includes additional costs for sampling events and data upload during Option Period 2. As a result, the (b)(4)							
(b)(4)							
2. Deobligate funding on Option Period 1 in the (b)(4)							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				Nicholas Bisher			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				 (Signature of Contracting Officer)		ELECTRONIC SIGNATURE 04/02/2020	

## CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
EP-C-16-006/68HE0C18F0817/P00006PAGE OF  
2 5NAME OF OFFEROR OR CONTRACTOR  
ESS GROUP, INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>unexpended funds. See the limitation of Funds Notice Clause for the cost/fee breakout.</p> <div>(b)(4)</div> <p>TOCOR: Shera Reems Max Expire Date: 01/31/2021 InvoiceApprover: Shera Reems Alt Invoice App: Forrest John</p> <p>LIST OF CHANGES: Reason for Modification: Supplemental Agreement for work within scope Total Amount for this Modification: (b)(4) New Total Amount for this Version: (b)(4) New Total Amount for this Award: (b)(4) Obligated Amount for this Modification: (b)(4) New Total Obligated Amount for this Award: (b)(4)</p> <p>CHANGES FOR LINE ITEM NUMBER: 3 Description changed to Option Period 2: February 1, 2020 through January 31, 2021 LOE 2973 Total Amount changed (b)(4)</p> <p>CHANGES FOR DELIVERY LOCATION: CPOD (b)(4)</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 19-E4-87FL-000BL7-2505-2087LE4005-001 Beginning FiscalYear 19 Ending Fiscal Year Fund (Appropriation) E4 Budget Organization 87FL Program (PRC) 000BL7 Budget (BOC) 2505 Job # (Site/Project) Cost Organization DCN-LineID 2087LE4005-001 Quantity: 0 Continued ...</p>				

## CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
EP-C-16-006/68HE0C18F0817/P00006PAGE OF  
3 5NAME OF OFFEROR OR CONTRACTOR  
ESS GROUP, INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Amount: (b)(4) Percent: (b)(4) Subject To Funding: N Payment Address:  CHANGES FOR LINE ITEM NUMBER: 2 Description changed to Option Period 1: February 1, 2019 through January 31, 2020 (b)(4) Total Amount changed (b)(4)  CHANGES FOR DELIVERY LOCATION: CPOD (b)(4)  CHANGES FOR ACCOUNTING CODE: 18-E4-87FL-000BL7-2505-1987LE9001-001 (b)(4) Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 07/20/2018 to 01/31/2021  All other terms and conditions remain unchanged				

**Performance Work Statement  
NARS2 Contract  
EP-C-16-006/ 68HE0C18F0817**

**A. TITLE:** San Juan Watershed Monitoring Program

**B. EPA PERSONNEL**

**Task Order Contracting Officer Representative (TOCOR):**

Name: Shera Reems  
Office: EPA Region 8, Office of Water Protection  
Address: 1595 Wynkoop Street, Denver, CO 80202-1129  
Telephone: 303-312-6888  
E-mail: reems.shera@epa.gov

**Alternate Task Order Contracting Officer Representative (TOCOR):**

Name: Forrest John  
Office: EPA R6, Water Division  
Address: 1445 Ross Avenue, Dallas, TX, 75202  
Telephone: 214-665-8368  
E-mail: john.forrest@epa.gov

**C. ESTIMATED PERIOD OF PERFORMANCE**

*Base Period:* Award Date through January 31, 2019  
*Option Period 1:* February 1, 2019 through January 31, 2020  
*Option Period 2:* February 1, 2020 through January 31, 2021

**D. TYPE OF TASK ORDER:** Cost plus Fixed Fee (CPFF)

**I. BACKGROUND:**

As part of the San Juan Watershed Monitoring Program, EPA, in collaboration with the jurisdictions of Arizona, Colorado, New Mexico, Utah, Navajo Nation, Southern Ute, and Ute Mountain Ute, are implementing the San Juan Watershed Long-Term Monitoring Plan. The San Juan Watershed Long-Term Monitoring Plan is designed to:

1. Implement a consistent approach to data collection and assessment of the water quality conditions in the San Juan Watershed and encompassing rivers (Animas and San Juan Rivers and Lake Powell);
2. Characterize water and sediment quality under the primary hydrologic regimes of spring runoff, summer base flow, fall monsoons, and winter low-flow conditions;
3. Share collected water quality data with the public;
4. Communicate to the public the water quality conditions in the San Juan Watershed; and
5. Guide management actions.

The candidate sites are located throughout the San Juan Watershed. EPA, in collaboration with the jurisdictions, have identified 39 monitoring locations along Cement Creek, Mineral Creek, the Animas River, the San Juan River, various tributaries and diversion canals, and the Colorado River immediately below Lake Powell. In collaboration with the jurisdictions, water chemistry and sediment sampling will occur in the Base Year. This sampling will be conducted at the 39 sampling locations identified in Table 1 for the proposed monitoring parameters and timeline provided in Table 2, Task 5. In Option Periods 1 and 2 of this performance work statement, water chemistry and sediment sampling will continue at the 39 sampling locations identified in Table 1 and for the proposed monitoring parameters and timeline provided in Tables 2 and 3, Task 5, and include physical habitat and benthic macroinvertebrate sampling at select locations outlined in the Quality Assurance Project Plan for the San Juan Watershed: Long-Term Monitoring Plan for Biology. Option Periods 1 and 2 work is dependent upon WIIN Act Appropriations.

Table 1 provides a list of sampling locations for the monitoring described in this plan. Figure 2 displays location of each sample site within the San Juan Watershed.

**Table 1. List of Sampling Locations**

Index	Nominating Jurisdiction	Site ID	Nearby Sampling Locations	Latitude	Longitude	Description/Location	Site Type
1	CDPHE	9488	EPA A68 (13.90) USGS 09358000 (13.90)	37.811202	-107.659167	Animas Above Cement	Main (above Cement)
2	CDPHE	9447	EPA M34 USGS 9359010	37.8028	-107.67222	Mineral Creek	Tributary to Animas
3	CDPHE	CEM49	EPA CC48 (12.54) USGS 09358550 (12.41)	37.819984	-107.663275	Cement Creek at Silverton CO	Main
4	CDPHE	82	EPA A72 (16.35) USGS 09359020 (16.34) RCWWN 3579 (15.88)	37.79027	-107.667578	Animas Below Silverton	Main
5	CDPHE	81	EPA Bakers Bridge (64.02) EPA GKM02 (63.83) RCWWN 3611 (16.4)	37.45844	-107.7997567	Animas River at Bakers Bridge	Main
6	CDPHE	9423A	EPA Rotary Park (94.24) EPA GKM05 (96.66) USGS GAGE RCWWN 3576 (93.83)	37.27456333	-107.8842733	Animas River at 9th Street	Main
7	SUIT	AR 19-3 (NAR1)	EPA GKM01 (103.16) CDPHE 9420C (103.16)	37.213842	-107.854161	Animas River at Southern Ute Tribe AR19-3	Main
8	SUIT	NAR 6	EPA AR2 7-a (130.65)	37.02342	-107.87387		Main
9	NMED	66Animas057.0	None	36.983263	-107.86758	Animas River below state line (Estes Arroyo to SUIT boundary)	Main

**Table 1. List of Sampling Locations**

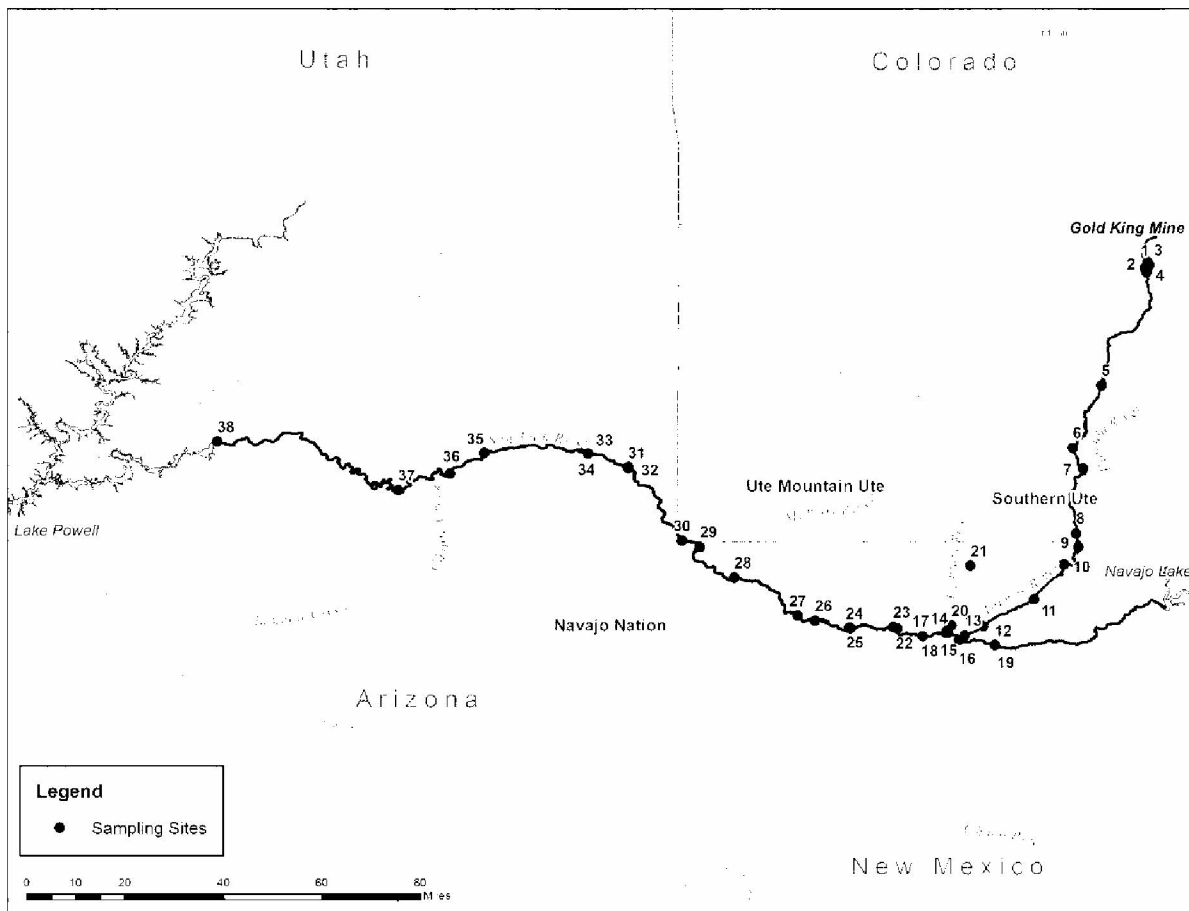
Index	Nominating Jurisdiction	Site ID	Nearby Sampling Locations	Latitude	Longitude	Description/Location	Site Type
10	EPA	ADW-022		36.9333	-107.90907	Aztec domestic water system, Intake Sampling Location	Main
11	NMED	66Animas028.1 (ANIMASAB)	EPA ADW010 (162.87)	36.82949	-107.997663	Animas River above Estes Arroyo, near Aztec	Main
12	NMED	66Animas009.8	EPA MW 020 (178.69)	36.750231	-108.146982	Animas River at CR 5000 above Farmington	Main
13	NMED	66Animas001.7 (ANIMASFM)	USGS 0936500 (192.96) EPA FW040 (190.16)	36.72303	-108.201611	Animas River at Boyd Park in Farmington	Main
14	NMED	66SanJua100.2	EPA LVW-020 (196.05)	36.730556	-108.251046	Lower valley water users association, Intake Sampling Location	Main
15	NNEPA	10FRUCANAL40	None	36.73082	-108.25602	Fruitland Canal @ first bridge downstream from headgate	CANAL
16	NMED	64SanJua101.6		36.711038	-108.218042	San Juan River above Animas River	Main
17	NMED NNEPA	67SanJua096.3 10SANJUANR37	EPA SJLP (196.87)	36.73588701	-108.2539868	San Juan River DS of the Animas confluence	Main
18	NMED	67SanJua088.1 (SJLION)	EPA LVW-030 (204.48)	36.722136	-108.325619	San Juan River at Lions Park near Kirtland	Main
19	NMED	64Galleg000.4		36.695866	-108.1125	Gallegos Canyon at San Juan River	Tributary to SJ
20	NMED	67LaPlat002.3		36.75252	-108.24047	La Plata River at Farmington City Park	Tributary to SJ
21	NMED	67LaPlat024.8		36.9289	-108.184698	La Plata River at La Plata, NM	Tributary to SJ
22	NMED	67Steven000.7		36.744115	-108.400245	Stevens Arroyo below CR 6100	Tributary to SJ
23	NNEPA	10SANJUANR38	EPA SJFP (214.43)	36.7482	-108.41163	San Juan River upstream from PNM fish passage	Main
24	NNEPA	NNEPA-10SANJUANR25	EPA SJHB (227.66) USGS 364446108321510 (227.61)	36.7454628	-108.5378488	San Juan River @ the bottom of the Hogback fish passage	Main
25	NNEPA	10HOGBACKC4 2	see above	36.74632	-108.54147	Hogback Canal between head gate and first waste way	CANAL
26	NNEPA	06CHACORIV04	None	36.76674	-108.64237	Chaco River near mouth	Tributary to SJ

**Table 1. List of Sampling Locations**

Index	Nominating Jurisdiction	Site ID	Nearby Sampling Locations	Latitude	Longitude	Description/Location	Site Type
27	NNEPA	10SANJUANR36	EPA SJSR (246.34) USGS 09368000 (246.12)	36.78157	-108.69281	San Juan River at Shiprock bridge	Main
28	NNEPA	10SANJUANR26	EPA SJDS (272.48)	36.89325249	-108.8785948	San Juan River 15 miles downstream from Shiprock	Main
29	NNEPA	07MANCOSRIO 1	None	36.98314479	-108.9797495	Mancos River near mouth	Tributary to SJ
30	UDEQ NNEPA	UDEQ 4954000 NNEPA- 02SANJUANR06	EPA SJ4C (295.83) UMUT SJ-4C (298.49) USGS 09371010 (298.53)	37.001755	-109.032726	San Juan River at US160 Xing in CO	Main
31	NNEPA	NNEPA 02SANJUANR09	EPA SJME (333.21)	37.215946	-109.192054	San Juan River at McElmo Wash	Main
32	UDEQ NNEPA	UDEQ 4953880 NNEPA 04MCELMOCRO 1	EPA MECT (332.89)	<b>37.21868389</b>	<b>-109.1904117</b>	McElmo Creek at Highway U262 Xing	Tributary to SJ
33	UDEQ NNEPA	UDEQ 4953990 NNEPA 02SANJUANR07	EPA SJMC (345.80)	37.257788	-109.30975	San Juan River at U262 Xing Phillips Camp Road Xing (San Juan River at Town of Montezuma)	Main
34	UDEQ	4953560	EPA SJMC (345.80) NNEPA-02SANJUANR07 (345.80)	37.272086	-109.327694	Montezuma Creek at U163 Xing	Tributary to SJ
35	UDEQ NNEPA	UDEQ 4953250 NNEPA 02SANJUANR08	EPA SJBB (377.62)	37.26027863	-109.6137343	San Juan River at Sand Island or San Juan at Bluff Bridge	Main
36	UDEQ NNEPA	UDEQ 4953020 NNEPA 01CHINLECR27	None	37.199119	-109.715572	Chinle Creek Above Confluence with San Juan River	Tributary to SJ
37	UDEQ NNEPA	UDEQ 4953000 NNEPA 29SANJUANR05	EPA SJMH (421.33) USGS 09379500 (420.92)	37.150758	-109.867672	San Juan River at Mexican Hat US163 Xing	Main
38	UDEQ	4952942	EPA SJCH (510.74)	37.293008	-110.399621	San Juan River at Clay Hills boat ramp	Main
39	Arizona	CGCLR713.70	Boat Ramp	36.921667	-111.483611	USGS Gage 09379910 at Lees Ferry	CO River

**Key to jurisdictions:** CDPHE = Colorado Department of Public Health and Environment; SUIT = Southern Ute Indian Tribe; NMED = New Mexico Environment Department; NN = Navajo Nation; UDEQ = Utah Department of Environmental Quality; Arizona = Arizona Department of Environmental Quality.

**Figure 2. Location of sampling sites within the San Juan Watershed.**



The contractor will follow the Long-Term Monitoring Plan and QAPP that was developed under a separate contract.

In year 1, the contractor will be responsible for working with EPA to develop a standardized field form for water chemistry and sediment. The contractor shall work with the EPA to ensure that a unique identifier (site ID) is created. The contractor will be responsible for providing field forms. Should the contractor be tasked with using an EPA-developed standardized field form for activities such as physical habitat assessment and benthic macroinvertebrate sampling, EPA will provide the paper field forms for the specific field activity. The contractor shall submit a pdf of the form via email to EPA.

As another step in ensuring that all crews consistently apply the field protocols, EPA will arrange for training in the protocols outlined in the QAPP and an assistance visit (AV) during the crew's initial sampling visits. AVs will be conducted by EPA staff who have attended an EPA-

sponsored training or served as trainers. By having AVs early, the crew can incorporate corrective actions into sampling at the majority of their assigned sites.

## **II. PURPOSE**

The purpose of this task order is to provide field sampling support to the EPA Office of Water in implementing the San Juan Watershed Long-Term Monitoring Plan. In particular, the contractor will schedule and deploy field crews to collect samples and observational data at selected sites in the San Juan Watershed. The contract field crews shall adhere to strict quality assurance and quality control (QA/QC) requirements, including attendance at a training provided by EPA; use of appropriate supplies and equipment; adherence to all shipping and logistical procedures; participation in quality assurance assistance visits; and adherence to data reporting requirements and deadlines as outlined in the long-term monitoring plan and QAPP.

## **III. GOVERNMENT FURNISHED INFORMATION**

The EPA TOCOR will provide the following references via email.

- Reference 1: San Juan Watershed: Long-Term Monitoring Plan for Surface Water, Sediment, and Biology – DRAFT
- Reference 2: Quality Assurance Project Plan for the San Juan Watershed: Long-Term Monitoring Plan for Surface Water and Sediment (QAPP) – DRAFT
- Reference 3: Quality Assurance Project Plan for the San Juan Watershed: Long-Term Monitoring Plan for Biology (QAPP) – DRAFT
- Reference 4: NRSA 2013-2014 Field Forms
  - For field activities during which EPA National Rivers and Streams Protocols are employed, such as physical habitat assessment and benthic macroinvertebrate sampling, , EPA will provide the contractor with paper forms during the task order's period of performance. The contractor shall work with the EPA to ensure that a unique identifier (site ID) is created.

During the period of performance, EPA will provide the contractor with:

- Training for the contractor's field crews in the summer of 2018 and spring of 2019.

## **IV. GENERAL REQUIREMENTS**

In providing support under the tasks described in Section V, the contractor also shall adhere to the following general requirements:

### **1. Deliverables (see Contract PWS B.1)**

Memoranda shall be placed on company letterhead and the subject line shall include the phrase "EPA Contract EP-C-16-0XX". When transmitting deliverables by email, subject headers should

include the contract, task order, and deliverable description (e.g., “EP-C-16-0XX TO X: QAPP Signature Pages”).

All electronic files shall be clearly named using the San Juan Watershed abbreviation, a logical abbreviation for the name of the document (e.g., QAPP), the contractor name (abbreviated), and the date of edits to assist in version control (e.g., SJW18\_QAPP\_XX\_YYYYMMDD). Final versions shall be provided to EPA in both the original format (e.g., Word, PowerPoint) and PDF versions (if necessary, EPA will modify the files to be Section 508 compliant).

Unless specified differently by the EPA TOCOR in technical direction (per Contract Clause H.12), the contractor shall ensure that documentation is created using Agency standard software formats (e.g., Microsoft Office) to facilitate EPA use and review.

2. Meetings (see Contract Clause C.2)

Contractor personnel shall always identify themselves as contractor employees by name and organization and physically display that information through an identification badge. Contractor personnel are prohibited from acting as the Agency’s official representative. The contractor shall refer any questions relating to the interpretation of EPA policy, guidance, or regulation to the TOCOR.

## V. SCOPE OF WORK

### **Task 1. Monthly progress reports** (See Contract Attachment 3; PWS C.3)

The contractor shall manage the Task Order (TO) and submit monthly progress and financial reports prepared and submitted in accordance with the contract clause, Attachment 3, Reports of Work. The monthly progress and financial reports shall be broken out by task. The monthly progress report shall include project status, number of sites sampled (current and cumulative), identify sites sampled during the reporting period, unexpected problems or concerns, lessons learned, QA/QC activities, and next steps. The contractor also shall brief the TOCOR on progress during periodic (e.g., weekly) teleconferences during periods of intense activity.

#### **Deliverables and Schedule under Task 1:**

<b>Task</b>	<b>Deliverable</b>	<b>Due</b>
1	Progress and financial reports	Monthly
	Calls with EPA	Per technical direction (per Contract Clause H.12)

### **Task 2. Quality Assurance** (Contract PWS B.2, C.1.g)

Quality Assurance (QA) is an important component of EPA’s work to assure that minimum quality standards are attained. The contractor shall address the QA requirements of this task order by adhering to the requirements and procedures identified in:

- The contractor’s customized Quality Management Plan incorporated into this NARS contract;

- San Juan Watershed Long-Term Monitoring Plan QA documents which document how quality assurance and quality control will be applied to the collection of environmental data for the survey. The documents relevant to support in this task order are:
  - Quality Assurance Project Plan for the San Juan Watershed: Long-Term Monitoring Plan for Surface Water and Sediment
  - Quality Assurance Project Plan for the San Juan Watershed: Long-Term Monitoring Plan for Biology
  - San Juan Watershed: Long-Term Monitoring Plan for Surface Water, Sediment, and Biology

As demonstration of the contractor's:

- a. Commitment to adhere to the San Juan Watershed QAPPs, the contractor shall:
  - Ensure that all sampling personnel have reviewed and understand the requirements and procedures of the San Juan Watershed QAPPs, and Long-Term Monitoring Plan, which will be available prior to the field crew training session. The certification page entitled "Review & Distribution Acknowledgment and Commitment to Implement" is located in the introductory section of the QAPPs.
  - At a minimum, the following personnel shall sign the certification page for the QAPPs approved by EPA's Quality Assurance Officer:
    - Contractor's Task Order Leader
    - Contractor's Quality Assurance Officer,
    - **The crew leader must provide the signed certification page before the crew may commence with sampling events.**
  - At the contractor's discretion, it may also be appropriate for each field crew member to sign the certification page and transmit to EPA.
  - The contractor's QAO also shall sign the certification page for each revision of the QAPP that has been approved by EPA's QAO.
  - If EPA distributes updated versions of the QA documents and states that it contains a "significant change" relevant to field sampling, the contractor shall acknowledge, in writing (e.g., Email), that it has received and distributed the revised QA documents and other documents as necessary to the appropriate personnel. If any change will impact the scope and/or cost of the task order, the contractor shall notify the TOCOR and CO immediately.
- b. **Additional Key Personnel (EPAAR 1552.237-72) field crew leader (Task 7).** At a minimum, the field crew leader shall have at least three years of experience in leading field crews; and at least three years of experience in collecting water and sediment samples and conducting physical habitat sampling from rivers or streams; and experience collecting flow measurements using handheld flow measuring devices.
- c. **Permit EPA to perform an AV of its field crews during an early sampling event (e.g., the first sampling event by a crew, if possible).** The contractor shall coordinate with EPA, or its designee, on an agreed upon date and location for the AV. EPA will conduct the AV using a checklist provided by EPA, supplemented by photographs if appropriate (e.g., to record a deviation in methods due to extenuating circumstances).

Although EPA will arrange for the AVs, it is the contractor's responsibility to ensure that the contractor field crew is abiding by the requirements and procedures of the QAPP. Should a new crew leader or crews be assigned to this work, it is the contractor's responsibility to reach out to EPA to coordinate with EPA to perform an AV of the new field crew.

- b. Implementation of QA in performing the other tasks in this PWS, the contractor shall document its QA activities as follows:
  - Reports of relevant QA activities in any deliverable. All QA documentation prepared under the task order shall be considered non-proprietary, except for the internal distribution list which may be claimed proprietary.
  - Monthly reports of QA activities performed during implementation of this task order. These monthly QA reports shall identify QA activities performed to support implementation of this task order, problems encountered, deviations from the San Juan Watershed QAPPs, and corrective actions taken. The contractor shall include the QA report with the monthly progress report. In addition, the contractor shall immediately bring to the attention of the TOCOR any QA problems that may affect the conduct of the tasks or the project, with recommendations for corrective actions.
- c. Commitment to continuous quality improvements, the contractor shall provide summaries of "lessons learned" based upon its support to the other tasks. EPA will use this information to improve future monitoring conducted under the San Juan Watershed Monitoring Program. The contractor shall incorporate EPA comments into revised versions.

**Deliverables and Schedule under Task 2:**

Task	Deliverable	Due
2	Signature page for each version of QAPP approved by EPA's QAO:	
	- With contractor's QAO and Task Order Leader signatures.	- No later than 5 working days after receiving the approved QAPP with EPA QAO's signature
	- With crew leader signature	- At training
	Email acknowledgement of QA documents with "significant change"	No later than 10 working days after receiving revised QA document
2	Memo with qualifications of field crew members, other than the field crew leader	With first draft of the schedule for field crew for the schedule outlined in the long-term monitoring plan. Unless circumstances change unexpectedly, qualifications of replacements, except key personnel, must be submitted at least one

Task	Deliverable	Due
		week prior to the sampling event. See key personnel clause for process for replacements through a task order modification.
2	Email with outcome of testing field forms with any recommended changes (applicable to EPA-provided forms, only)	5 working days after receiving the first electronic/paper version of field forms. 1-5 working days after receiving subsequent versions, depending on extent of revision and schedule implications.
2	Access to contractor's calibration and maintenance records	Within 5 working days after receiving technical direction (per Contract Clause H.12)
2	Allow access for EPA or its designee to conduct an assistance visit to each field crew	Per technical direction (per Contract Clause H.12), based upon scheduling discussions occurring prior to the crews first sampling event
2	Documentation of QA activities	In deliverables
2	Monthly reports of QA activities	With monthly progress report
2	Memorandum 1 with lessons learned for 2018 data collection	April 15, 2019. Revisions within 5 work days.
	Memorandum 2 with lessons learned for 2019 data collection	April 15, 2020. Revisions within 5 work days.
	Memorandum 3 with lessons learned in 2020 data collection	April 15, 2021. Revisions within 5 work days.

### Task 3. Field Training

EPA will host a San Juan Watershed training session during the summer of calendar year 2018 and fall of calendar year 2019. For purposes of preparing the proposal response, the contractor shall use Golden, Colorado as the training site, which is near the Region 8 lab. The fall 2019 training will coincide with the late summer / early fall routine sampling event. The training will provide detailed instructions on the prescribed sampling methods for the San Juan Watershed long-term monitoring plan participants. The training may include up to three 2-hour webinars (e.g., overview and forms) and up to 1 to 2 days of combined classroom and field training. It is preferable that all crew members participate in training activities, but at a minimum the contractor shall ensure that the field crew leader participate in a training session unless the EPA TOCOR issues technical direction (per Contract Clause H.12). The contractor shall report out, each month, on any associated training costs (e.g., travel and LOE) broken out by training using the template provided by the EPA TOCOR.

1. Deliverables and Schedule under Task 3:

Task	Deliverable	Due
3	Attend training	Prior to first sampling event
3	Report out on costs associated with attending EPA Long-Term Monitoring Program trainings	With monthly progress report

**Task 4. Pre-Sampling Site Evaluation** (See Contract PWS C.1)

Table 1 identifies the sampling sites assigned to the contractor.

As part of the evaluation process, the contractor shall obtain the proper collection permit and/or landowner permission to sample sites, where necessary. It is imperative for the integrity of this long-term monitoring program that a thorough effort is made to gain permission to sample sites. For each field season, the contractor shall provide a summary of the permits that includes the following information:

- Site ID
- Name of Refuge/Park/Authority
- Agency
- Contact Information (for Agency)
- Date Approved (if available)
- Permit Number

Additionally:

- a. Unless directed otherwise by the TOCOR, the field crew shall provide notification to the TOCOR of a site not sampled and to determine if there is a replacement site.
- b. If the land is under control of a Tribe, the contractor shall receive prior approval from the EPA TOCOR **prior** to contacting any Tribal representatives or sampling the site.
- c. If the permit or any other requirements conflict with the study protocols, the contractor shall notify the EPA TOCOR who will decide whether the site should be retained or replaced.

**Deliverables and Schedule under Task 4:**

Task	Deliverable	Due
4	Summary of Permits	One month prior to the end of performance for the base period and OP1, and OP2.

Task	Deliverable	Due
	Email identifying Indian Tribe ownership of site	Within 2 working days of identification. (This notification is critical.)
	Email describing conflicts with study protocols	Within 2 working days of identification.

#### **Task 5. Schedule** (See Contract PWS C.2)

In Option Period 1, due to an unforeseeable dry fall, the contractor was not able to complete the scheduled stormwater sampling.

The purpose of the schedule is to ensure that the contractor **will sample sites during each of the hydrologic periods identified by the jurisdictions. See Table 2.** Prior to the start of each field season, EPA will provide details to the contractor regarding any priorities that must be taken into account in establishing the schedule (number of sites, order of sampling for specific years). As needed, the TOCOR shall issue technical direction related to this information. The contractor shall provide the following:

- a. Before the start of each field season, the contractor shall provide EPA with the first draft with tentative sampling dates and crew assignments for all sites. Throughout the monitoring schedule, the contractor shall revise the schedule to incorporate the EPA TOCOR's technical direction (per Contract Clause H.12) or mitigating factors, including, but not limited to, weather, field crew changes, and unanticipated delays.
- b. To support EPA's review of the draft schedule and revisions that affect early season sampling events, the contractor shall provide a written assessment of the expected conditions at the sites scheduled to be sampled prior to each hydrologic period sampling event. Only after receiving technical direction (per Contract Clause H.12) that approves the draft schedule and any revisions for sampling in May and June, shall the contractor arrange for travel to sites on the approved list. The contractor is responsible for providing EPA with a schedule of the sampling locations one week in advance of traveling to the field to conduct the work. Furthermore, the contractor shall be responsible for providing notice to jurisdictional authorities within two weeks prior to sampling on applicable jurisdictional sites. The contractor shall be responsible for providing notice to the lab within 30 days of the shipment of samples to be analyzed. This includes completing and submitting the requested forms and information.

TABLE 2. BASE PERIOD AND OPTION PERIODS 1 AND 2 SAMPLING AND MONITORING PARAMETERS AND TIMELINE.					
SAMPLING AND MONITORING SCHEDULE	FEBRUARY OR MARCH	MAY	JUNE	STORM EVENT JULY TO SEPT	AUGUST OR SEPTEMBER
BASE PERIOD (AWARD DATE TO JANUARY 31, 2019)				X (2018)	X (2018)
OPTION PERIOD 1 (FEBRUARY 1, 2019 TO JANUARY 31, 2020)	X (2019)	X (2019)	X (2019)	X (2019) – NOT COMPLETED DUE TO UNFORESEEABLE DRY FALL	X (2019) <sub>2</sub>
OPTION PERIOD 2 (FEBRUARY 1, 2020 TO JANUARY 31, 2021)	X (2020)	X (2020)	X (2020)	X (2020)	X (2020) <sub>2</sub>
HYDROLOGIC PERIOD TO CAPTURE	Winter Low Flow	Spring Runoff (Rising Limb)	Spring Runoff (Peak Limb)	Monsoons	Late Summer Base Flow
WATER COLUMN - dissolved and total metals <sup>1</sup> , dissolved organic carbon (DOC), total organic carbon (TOC), alkalinity, total suspended solids (TSS), total and dissolved hardness, sulfate, chloride	1 event	1 event	1 event	1 event	1 event
SEDIMENT – total metals <sup>1</sup> , TOC, grain size	1 event	1 event	1 event		1 event
NUTRIENTS – total nitrogen, total phosphorus	1 event	1 event	1 event	1 event	1 event
BACTERIA – E. COLI	1 event	1 event	1 event		1 event
FIELD PARAMETERS	All sampling events will include field parameters (pH, temperature, dissolved oxygen, specific conductance and turbidity) measured with a data probe/sonde type instrumentation.				
FLOW	Provided via the nearest USGS gaging stations. Flow will be collected at Animas at Bakers Bridge, McElmo Creek, Chinle, Montezuma, Chaco River, and Mancos River.				
<sup>1</sup> Aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, chromium III, chromium VI, cobalt, copper, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, potassium, selenium, silver, sodium, strontium, thallium, uranium, vanadium, and zinc					
<sup>2</sup> In Option Periods 1 and 2, this sampling event will also include physical habitat and benthic macroinvertebrate sampling at select locations outlined in Appendix A in the Quality Assurance Project Plan for the San Juan Watershed: Long-Term Monitoring Plan for Biology. (see Table 3 below)					

<b>Table 3. Sampling and Monitoring Schedule for Option Periods 1 and 2</b>	
<b>SAMPLING AND MONITORING SCHEDULE:</b>	OPTION PERIODS 1 AND 2 (see Table 2 above)
<b>HYDROLOGIC PERIOD TO CAPTURE:</b>	Base Flow – Late Summer to early Fall (see Table 2 above)
<b>BENTHIC MACROINVERTEBRATE</b>	14 Locations. See Table 5 in Quality Assurance Project Plan for the San Juan Watershed: Long Term Monitoring Plan for Biology
<b>PHYSICAL HABITAT</b>	13 Locations. See Table 5 in Quality Assurance Project Plan for the San Juan Watershed: Long Term Monitoring Plan for Biology
<b>FIELD DOCUMENTATION &amp; PHOTOGRAPHS</b>	14 Locations. See Table 5 in Quality Assurance Project Plan for the San Juan Watershed: Long Term Monitoring Plan for Biology
Biological sampling to occur concurrent with physical-chemical sampling	

**Deliverables and Schedule under Task 5:**

<b>Task</b>	<b>Deliverable</b>	<b>Due</b>
5.a	First draft of sampling schedule	First draft due April 1, 2018 or later per technical direction (per Contract Clause H.12). Revisions per technical direction (per Contract Clause H.12). Revisions are required until the field sampling is complete.
5.b	Assessment of sites scheduled prior to each sampling event.	30 days prior to each field sampling event or later per technical direction (per Contract Clause H.12). Revisions per technical direction (per Contract Clause H.12)
5.c	Notification of site conditions if they are not conducive to sampling	As soon as possible per availability of phone or email access.

**Task 6. Preparation for Field Sampling (See Contract PWS C.2)**

In Option Period 1, due to an unforeseeable dry fall, the contractor was not able to complete the scheduled stormwater sampling.

The contractor shall prepare for field sampling visits as follows:

- a. The contractor shall be responsible for providing consumable materials as described in the QAPPs and the Standard Operating Procedures. These materials include but are not limited to sampling containers, and sampling equipment, e.g., filters for dissolved samples, preservatives, Teflon scoops, shipping materials.
- b. The contractor shall be responsible for arranging for and supply vehicles, staff, and all necessary non-consumable equipment to the field crews including, but not limited to, boats, safety equipment, multi-probes instrumentation, appropriate devices for electronic data capture (if applicable), storm water collection equipment such as ISCO samplers, and GPS devices.

**Deliverables and Schedule under Task 6:**

Task	Deliverable	Due
6.a	Consumable supplies	During field sampling visits
6.b	Supply equipment	During field sampling visits

**Task 7. Field Sampling Visits** (See Contract PWS C.2)

In Option Period 1, due to an unforeseeable dry fall, the contractor was not able to complete the scheduled stormwater sampling.

In Option Period 2, for the routine sampling events planned for May, June, and August or September, and the stormwater sampling event planned for July to September, the contractor shall fill three additional pre-labelled 125 mL bottles for unfiltered (total) metals, filtered (dissolved) metals, and sulfate isotopes.

The contractor shall complete the field sampling visits during the periods identified in Table 2, unless the EPA TOCOR provides technical direction (per Contract Clause H.12) to sample outside these time periods. For each field sampling visit, the contractor shall adhere to EPA's specified sampling methods outlined in the Quality Assurance/Quality Control requirements described in the QAPPs and Standard Operating Procedures. The EPA Region 7 and Office of Research and Development (additional 3 125mL bottles added in Option Period 2) labs will be responsible for all analysis. As mentioned in Task 8, the contractor will be responsible for coordinating with the Region 7 and Office of Research and Development -labs and adhering to their processes. The contractor shall provide the following:

- a. To record observations and sample information, the contractor shall use standardized field forms on paper. The contractor will be responsible for providing field forms. Should the contractor be tasked with using an EPA-developed standardized field form for activities such as physical habitat assessment and benthic macroinvertebrate, EPA will

provide the paper field forms for the specific field activity. If the contractor is using a hard copy, the contractor shall submit a pdf of the form via email to EPA.

- b. Prior to sample shipment, the contractor shall coordinate with the lab conducting the analysis and obtain information on the chain-of-custody (COC) form provided by the lab. The contractor then shall ship samples to the analytical laboratory.

**Deliverables and Schedule under Task 7:**

Task	Deliverable	Due
7a	Field Form for approval by the TOCOR	Two weeks prior to field sampling
7.b	Upload/Transmit forms and confirm transmittal/delivery was complete	As soon as possible (may vary depending on internet access and requirements in the 2017 FOM).
7.c	Ship samples and COC forms	Per QAPP.

**Task 8. Post-Sampling Activities**

In Option Period 1, due to an unforeseeable dry fall, the contractor was not able to complete the scheduled stormwater sampling.

The contractor shall perform any post-sampling requirements specified in permits. The contractor shall make field crews available to respond to EPA's post-sampling questions about the field sampling observations and procedures that might affect the data values and quality. If questions come from sources other than the EPA TOCOR (e.g., jurisdictions involved in this effort), contact the EPA TOCOR to coordinate the response or provide a summary by email (e.g., if the questions were posed through telephone conversations).

Unless the TOCOR grants an exception, the contractor shall refrain from publishing findings based upon work conducted under this task order. This restriction shall remain in effect until EPA provides public access to the data.

Once the EPA Region 7 and Office of Research and Development labs have completed the analysis, the contractor will receive the lab results in a Microsoft Excel compatible format. The contractor shall conduct a review of the lab results, coordinate with EPA to share the lab results with the jurisdictions, and upload the results into the Water Quality Portal via the Water Quality Exchange. If the lab provides the contractor with lab results in a format not compatible with the Water Quality Exchange, it will be the responsibility of the contractor to format the data in a compatible format. The contractor shall be responsible for ensuring that the water chemistry and sediment data is uploaded into WQX with the following information: Project ID Animas\_SanJuan\_Watershed; Project Name: Animas San Juan Watershed; and Project Description: Monitoring performed in the Animas and San Juan Watershed. For all benthic macroinvertebrate data and physical / habitat data, the contractor shall be responsible for

coordinating with EPA to have this data uploaded into the National Aquatic Resource Survey IM database.

**Deliverables and Schedule under Task 8:**

<b>Task</b>	<b>Deliverable</b>	<b>Due</b>
8a	Confirmation that actions required by permits have been completed	With monthly progress report
8b	Email responding to data questions	Within 5 working days, if field crew is available. Otherwise, provide email within 5 days with expected response date.
8c	Conduct review of the lab results	Within 15 working days of receiving the file from the lab.
8d	Coordinate with EPA to share lab results with the jurisdictions	Within 5 days of completing the contractor review
8e	Upload all field in-situ surface water measurements, water chemistry and sediment chemistry lab results into the Water Quality Portal	Within 5 days of completing all reviews
8f	Assist EPA to upload habitat data into the National Aquatic Resource Survey database	Within 5 days of completing reviews

**Task 9. Meeting Support – Field Demonstration and Presentation**

The contractor shall provide support for the Water Resources Research Institute (WRRI) annual meeting that will focus on the San Juan Watershed Success and Challenges. This support shall include: participation in planning meetings; develop and deliver a field demonstration of the water quality and sediment sampling techniques to meeting participants, prepare and deliver a presentation on the San Juan Watershed monitoring program at the meeting. In addition, the contractor shall be available to discuss the San Juan Watershed sampling program during a technical exchange meeting with the states and tribes. This technical exchange will occur the day before the annual WRRI meeting held in Farmington, NM in June.

Deliverables and Schedule under Task 9:

Task	Deliverable	Due
9	Field demonstration of water quality and sampling techniques	June 2019
9	Presentation on San Juan Watershed monitoring program	June 2019

## TRAVEL

This section provides a summary of the travel requirements described in Section V. Assume each field crew contains 2 members. Here are assumptions to use in costing:

Task V.3 (Training) –

- All key personnel and crew members attend an EPA training prior to starting field sampling. (Actual training selected after award may differ from those used in this costing.)

Task V.7 (Sampling) – for every site,

- One field crew of 2 to 4 members travel to the site dependent upon sampling activity (e.g. benthic macroinvertebrate and physical habitat sampling will require more than a 2- member crew).
- Total of 39 site visits for each of the hydrological periods with the exception of 15 site visits for the storm event period identified in Table 2.
- Travel costs are minimized to the extent possible (e.g., combining nearby sites into one trip).

Task V.9 (Meeting Support) –

- One team member will travel to Farmington, NM

## VI. Quality Assurance Surveillance Plan (QASP)

EPA will judge performance using the following Quality Assurance Surveillance Plan (QASP).

Performance Requirement	Measureable Performance Standards	Surveillance Method	Incentives/Disincentives
<b>Management and Communications:</b>	Any issue adversely impacting project schedules, cost, time or quality shall be	EPA TOCOR will identify unreported issues.	Four or more incidents where the contractor:

<b>Performance Requirement</b>	<b>Measureable Performance Standards</b>	<b>Surveillance Method</b>	<b>Incentives/Disincentives</b>
The Contractor shall maintain contact with the EPA TOCOR throughout the performance of the task order and shall immediately bring potential problems to the attention of the EPA TOCOR. In cases where issues have a direct impact on field sampling activities, project schedules (i.e., not each sampling event), cost, time, or quality, the contractor shall provide options for EPA's consideration on resolving the issues or mitigating their impacts.	<p>brought to the attention of the EPA TOCOR:</p> <p>i) If the contractor requires EPA guidance during a sampling event, the contractor must contact EPA prior to completing the sampling activities.</p> <p>ii) If the contractor identifies an issue that could affect multiple crews, the contractor shall contact EPA that day so that direction can be provided to all crews in the field.</p> <p>iii) If the contractor identifies sampling issues that are otherwise not urgent, the contractor shall contact EPA within 5 working days.</p>		<ul style="list-style-type: none"> <li>• Does not provide timely notification; or</li> <li>• Created a severe adverse situation</li> </ul> <p>will be considered unsatisfactory performance and will be reported as such in the CPARS Performance Evaluation System under the category of <b>Management</b>.</p> <p>Fewer than four incidents where the contractor does not meet the measureable performance standard will be considered acceptable performance and will be reported as such in the CPARS Performance Evaluation System under the category of Management.</p>
<b>Completeness:</b> Samples, site evaluation spreadsheets, tracking forms and completed field sampling data forms shall be delivered in accordance with the	100% of the samples shall be transmitted in accordance with the QAPP protocols for shipping. Excessive breakage or spoilage will count as a failure of sample delivery, if breakage/spoilage is	100% of the lab delivery reports, spreadsheets, and field forms will be reviewed by the EPA TOCOR at the end of each hydrologic sampling to compare actual	10 or more incidents where the contractor does not meet the measureable performance will be considered unsatisfactory performance and will be reported as such in the CPARS Performance Evaluation System under

<b>Performance Requirement</b>	<b>Measureable Performance Standards</b>	<b>Surveillance Method</b>	<b>Incentives/Disincentives</b>
requirements of the QAPP	<p>a result of failing to follow the QAPP protocols for shipping.</p> <p>No more than 10% of the spreadsheets and field sampling forms shall be submitted more than 5 working days past the requirements in the long-term monitoring plan. If the field form or spreadsheet has not been completed correctly, it will be considered a failure of completeness.</p>	delivery dates against the requirements in the QAPP and long-term monitoring plan.	<p>the category of <b>Schedule</b>.</p> <p>Fewer than ten incidents where the contractor does not meet the measureable performance standard will be considered acceptable performance and will be reported as such in the CPARS Performance Evaluation System.</p>
<p><b>Cost Management and Control:</b></p> <p>The Contractor shall monitor, track, and accurately report cost and fee expenditures to EPA through progress reports and approved special reporting requirements. The Contractor shall assign appropriately leveled and skilled personnel to all tasks, practice and encourage time management, and ensure accurate and</p>	The contractor shall manage costs to the level of approved ceiling on the task order. The contractor shall notify the TOCOR, PO and CO when 75% of the approved funding ceiling for the task order is reached.	The TOCOR will compare actual versus projected expenditures on a monthly basis (via meetings, monthly progress reports & milestones established for each deliverable).	<p>Unsatisfactory rating under the category of <b>Cost Control</b> in CPARS when the contractor does not meet the measurable performance standards.</p> <p>An acceptable rating will be reported in the CPARS Performance Evaluation System under the category of Cost Control if the contractor meets the measureable performance standards and accurately reports the costs.</p>

<b>Performance Requirement</b>	<b>Measureable Performance Standards</b>	<b>Surveillance Method</b>	<b>Incentives/Disincentives</b>
appropriate cost control.			
<b>Technical Effort:</b> The Contractor shall assign appropriately leveled and skilled personnel to all tasks; and abide by the contractor's QMP, long-term monitoring plan, and QAPP.	No more than 25% of reviewed deliverables and data shall require revisions to meet the requirements.  All of the assigned staff must meet the requirements in the long-term monitoring plan, and QAPP.	100% of the data and staffing will be reviewed by the EPA TOCOR to identify noncompliance issues.	Unsatisfactory rating under the category of <b>Quality</b> in CPARS when the contractor does not meet the measurable performance standards during an applicable period of performance.

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 4	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00007		See Block 16C		See Schedule			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x)			
ESS GROUP, INC. Attn: ROBERT ERICKSON 10 HEMINGWAY DR # 2 RIVERSIDE RI 02915				9A. AMENDMENT OF SOLICITATION NO.			
				9B. DATED (SEE ITEM 11)			
				x 10A. MODIFICATION OF CONTRACT/ORDER NO. EP-C-16-006 68HE0C18F0817			
				10B. DATED (SEE ITEM 13) 07/20/2018			
CODE 019131986		FACILITY CODE					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)				(b)(4)			
See Schedule							
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
x	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: Bilateral - FAR 52.243-2 and Mutual Agreement of the Parties						
	D. OTHER (Specify type of modification and authority)						
<b>E. IMPORTANT:</b> Contractor <input type="checkbox"/> is not <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 019131986							
The Purpose of this Modification is to:							
1. Revise the Performance Work Statement in accordance with the attached Performance Work Statement to account for work delays due to the Covid-19 Pandemic that resulted in having to create an Option Period 3 to complete all work;							
2. Obligate incremental funding in the (b)(4)							
(b)(4) in accordance with the attached Recapitulation sheet; and							
3. Revise Local Clauses EPA-G-42-101 Contract Administration Representatives.							
TOCOR: Shera Reems Max Expire Date: 01/31/2021 Invoice Approver: Shera Reems Alt Invoice App: Forrest John							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				Sandra Stargardt-Licis			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				ELECTRONIC SIGNATURE		01/19/2021	
				(Signature of Contracting Officer)			

<b>CONTINUATION SHEET</b>	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF
	EP-C-16-006/68HE0C18F0817/P00007	2	4

NAME OF OFFEROR OR CONTRACTOR  
ESS GROUP, INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 07/20/2018 to 01/31/2021  Change Item 0003 to read as follows (amount shown is the obligated amount):  0003 Option Period 2: February 1, 2020 through January 31, 2021 (b)(4) Requisition No: PR-OW-20-00062, PR-OW-20-00176  Accounting Info: 19-E4-87FL-000BL7-2505-2087LE4002-001 BFY: 19 Fund: E4 Budget Org: 87FL Program (PRC): 000BL7 Budget (BOC): 2505 DCN - Line ID: 2087LE4002-001 Funding Flag: Partial Funded: \$0.00 Accounting Info: 19-E4-87FL-000BL7-2505-2087LE4005-001 BFY: 19 Fund: E4 Budget Org: 87FL Program (PRC): 000BL7 Budget (BOC): 2505 DCN - Line ID: 2087LE4005-001 Funding Flag: Partial Funded: \$0.00  Add Item 0004 as follows:  0004 Option Period 3: February 1, 2021 through January 31, 2022 LOE 2363 Requisition No: PR-OW-21-00079, PR-OW-21-00126  Accounting Info: 20-E4-87FL-000BL7-2505 BFY: 20 Fund: E4 Budget Org: 87FL Program (PRC): 000BL7 Budget (BOC): 2505 Funding Flag: Partial Funded: \$0.00 Accounting Info: 20-E4-87FL-000BL7-2505-2187LE4001-001 BFY: 20 Fund: E4 Budget Org: 87FL Program (PRC): 000BL7 Budget (BOC): 2505 DCN - Line ID: 2187LE4001-001 Funding Flag: Partial Funded: (b)(4)  All other terms and conditions remain unchanged				0.00

**Section A - Solicitation/Contract Form was revised as follows.**

EPAAR 1552.217-71 OPTION TO EXTEND THE TERM OF THE CONTRACT-COST-TYPE CONTRACT.  
(APR 1984)

The Government has the option to extend the term of this contract for 3 additional period(s). If more than 60 days remain in the contract period of performance, the Government, without prior written notification, may exercise this option by issuing a contract modification. To exercise this option within the last 60 days of the period of performance, the Government must provide to the Contractor written notification prior to that last 60-day period. This preliminary notification does not commit the Government to exercising the option. The Government's estimated level of effort is (b)(4) direct labor hours for the first option period, (b)(4) for the second and (b)(4) for the third. Use of an option will result in the following contract modifications:

(a) The "Period of Performance" clause will be amended to cover a base period from 07/20/2018 to 01/31/2019 and option periods from 02/01/2019 to 01/31/2020, 02/01/2020 to 01/31/2021 and 02/01/2021 to 01/31/2022.

(b) Paragraph (a) of the "Level of Effort" clause will be amended to reflect a new and separate level of effort of (b)(4) for the first option period and a new and separate level of effort of (b)(4) for the second option period and a new and separate level of effort of (b)(4) for the third option period.

(c) The "Estimated Cost and Fixed Fee" clause will be amended to reflect increased estimated costs and fixed fee for each option period as follows:

	Option 1	Option 2	Option 3
Estimated cost	(b)(4)		
Fixed fee			
Total	\$288,588	\$337,327	\$292,580

(d) If the contract contains "not to exceed amounts" for elements of other direct costs (ODC), those amounts will be increased as follows:

Other direct cost item	Option 1	Option 2	Option 3
	(b)(4)		

(End of clause)

**Section B - Supplies or Services/Prices was revised as follows.**

Local Clauses EPA-B-16-102 ESTIMATED COST AND FIXED FEE

**Option Period 3**

(a) The estimated cost of this contract is (b)(4)

(b) The fixed fee is (b)(4)

(c) The total estimated cost and fixed fee is \$292,580.00

Local Clauses EPA-B-32-101 LIMITATION OF FUNDS NOTICE

**Option Period 3**

(a) Severable services may be incrementally funded. Non-severable services shall not be incrementally funded. Pursuant to clause 52.232-22/Limitation of Funds, incremental funding in the amount of (b)(4) is allotted to cover estimated cost. Funding in the amount of (b)(4) is provided to cover the corresponding increment of fixed fee. The amount allotted for costs is estimated to cover the contractor's performance through 5/5/2021.

(b) When the contract is fully funded as specified in clause EPA-B-16-102/ Estimated Cost and Fixed Fee, then clause 52.232-20/Limitation of Cost shall become applicable.

(c) Recapitulation of Funds

**RECAPITULATION OF FUNDING TO DATE BY CONTRACT PERIOD**  
**CONTRACT NO. EP-C-16-006**  
**TASK ORDER NO. 68HE0C18F0817**

**Option Period 3 - FROM 02/01/2021 through 01/31/2022**

<b>FUNDING ACTION</b>	<b>ESTIMATED COST</b>	<b>FIXED FEE</b>	<b>TOTAL COST PLUS FIXED FEE</b>
P00007	(b)(4)	(b)(4)	\$ 75,000.00
<b>Total Funded</b>			\$ 75,000.00
<b>Total Per Contract</b>			\$ 292,580.00
<b>Balance Unfunded</b>			\$ 217,580.00

**Section G - Contract Administration Data was revised as follows.**

**Clause EPA-G-42-101 is incorporated as follows:**

Local Clauses EPA-G-42-101 CONTRACT ADMINISTRATION REPRESENTATIVES

Contract-Level Contracting Officers Representatives (CORs)/Project Officers for this contract are as follows:

Shera Reems: Task Order Contracting Officer's Representative

Forrest John: Alternate Task Order Contracting Officer's Representative

Contracting Officials responsible for administering this contract are as follows:

Sandra Stargardt-Licis: Contracting Officer

Amanda Toole: Contracting Officer

**Section J - List of Documents, Exhibits and Other Attachments was revised as follows.**

<b>Attachment Number</b>	<b>Title</b>	<b>Date</b>
1	Performance Work Statement P00007	01/12/2021

**Performance Work Statement  
NARS2 Contract  
EP-C-16-006/ 68HE0C18F0817**

**A. TITLE:** San Juan Watershed Monitoring Program

**B. EPA PERSONNEL**

**Task Order Contracting Officer Representative (TOCOR):**

Name: Shera Reems  
Office: EPA Region 8, Office of Water Protection  
Address: 1595 Wynkoop Street, Denver, CO 80202-1129  
Telephone: 303-312-6888  
E-mail: reems.shera@epa.gov

**Alternate Task Order Contracting Officer Representative (TOCOR):**

Name: Forrest John  
Office: EPA R6, Water Division  
Address: 1445 Ross Avenue, Dallas, TX, 75202  
Telephone: 214-665-8368  
E-mail: john.forrest@epa.gov

**C. ESTIMATED PERIOD OF PERFORMANCE**

Base Period: Award Date through January 31, 2019  
Option Period 1: February 1, 2019 through January 31, 2020  
Option Period 2: February 1, 2020 through January 31, 2021  
Option Period 3: \_\_\_\_ February 1, 2021 through January 31, 2022

**D. TYPE OF TASK ORDER:** Cost plus Fixed Fee (CPFF)

**I. BACKGROUND:**

As part of the San Juan Watershed Monitoring Program, EPA, in collaboration with the jurisdictions of Arizona, Colorado, New Mexico, Utah, Navajo Nation, Southern Ute, and Ute Mountain Ute, are implementing the San Juan Watershed Long-Term Monitoring Plan. The San Juan Watershed Long-Term Monitoring Plan is designed to:

1. Implement a consistent approach to data collection and assessment of the water quality conditions in the San Juan Watershed and encompassing rivers (Animas and San Juan Rivers and Lake Powell);
2. Characterize water and sediment quality under the primary hydrologic regimes of spring runoff, summer base flow, fall monsoons, and winter low-flow conditions;
3. Share collected water quality data with the public;
4. Communicate to the public the water quality conditions in the San Juan Watershed; and
5. Guide management actions.

The candidate sites are located throughout the San Juan Watershed. EPA, in collaboration with the jurisdictions, have identified 39 monitoring locations along Cement Creek, Mineral Creek, the Animas River, the San Juan River, various tributaries and diversion canals, and the Colorado River immediately below Lake Powell. In collaboration with the jurisdictions, water chemistry and sediment sampling will occur in the Base Year. This sampling will be conducted at the 39 sampling locations identified in Table 1 for the proposed monitoring parameters and timeline provided in Table 2, Task 5. In Option Periods 1, 2, and 3 of this performance work statement, water chemistry and sediment sampling will continue at the 39 sampling locations identified in Table 1 and for the proposed monitoring parameters and timeline provided in Tables 2 and 3, Task 5, and include physical habitat and benthic macroinvertebrate sampling at select locations outlined in the Quality Assurance Project Plan for the San Juan Watershed: Long-Term Monitoring Plan for Biology. Option Periods 1, 2 and 3 work is dependent upon WIIN Act Appropriations.

Table 1 provides a list of sampling locations for the monitoring described in this plan. Figure 2 displays location of each sample site within the San Juan Watershed.

**Table 1. List of Sampling Locations**

Index	Nominating Jurisdiction	Site ID	Nearby Sampling Locations	Latitude	Longitude	Description/Location	Site Type
1	CDPHE	9488	EPA A68 (13.90) USGS 09358000 (13.90)	37.811202	-107.659167	Animas Above Cement	Main (above Cement)
2	CDPHE	9447	EPA M34 USGS 9359010	37.8028	-107.67222	Mineral Creek	Tributary to Animas
3	CDPHE	CEM49	EPA CC48 (12.54) USGS 09358550 (12.41)	37.819984	-107.663275	Cement Creek at Silverton CO	Main
4	CDPHE	82	EPA A72 (16.35) USGS 09359020 (16.34) RCWWN 3579 (15.88)	37.79027	-107.667578	Animas Below Silverton	Main
5	CDPHE	81	EPA Bakers Bridge (64.02) EPA GKM02 (63.83) RCWWN 3611 (16.4)	37.45844	-107.7997567	Animas River at Bakers Bridge	Main
6	CDPHE	9423A	EPA Rotary Park (94.24) EPA GKM05 (96.66) USGS GAGE RCWWN 3576 (93.83)	37.27456333	-107.8842733	Animas River at 9th Street	Main
7	SUIT	AR 19-3 (NAR1)	EPA GKM01 (103.16) CDPHE 9420C (103.16)	37.213842	-107.854161	Animas River at Southern Ute Tribe AR19-3	Main
8	SUIT	NAR 6	EPA AR2 7-a (130.65)	37.02342	-107.87387		Main
9	NMED	66Animas057.0	None	36.983263	-107.86758	Animas River below state line (Estes Arroyo to SUIT boundary)	Main

**Table 1. List of Sampling Locations**

Index	Nominating Jurisdiction	Site ID	Nearby Sampling Locations	Latitude	Longitude	Description/Location	Site Type
10	EPA	ADW-022		36.9333	-107.90907	Aztec domestic water system, Intake Sampling Location	Main
11	NMED	66Animas028.1 (ANIMASAB)	EPA ADW010 (162.87)	36.82949	-107.997663	Animas River above Estes Arroyo, near Aztec	Main
12	NMED	66Animas009.8	EPA MW 020 (178.69)	36.750231	-108.146982	Animas River at CR 5000 above Farmington	Main
13	NMED	66Animas001.7 (ANIMASFM)	USGS 0936500 (192.96) EPA FW040 (190.16)	36.72303	-108.201611	Animas River at Boyd Park in Farmington	Main
14	NMED	66SanJua100.2	EPA LVW-020 (196.05)	36.730556	-108.251046	Lower valley water users association, Intake Sampling Location	Main
15	NNEPA	10FRUCANAL40	None	36.73082	-108.25602	Fruitland Canal @ first bridge downstream from headgate	CANAL
16	NMED	64SanJua101.6		36.711038	-108.218042	San Juan River above Animas River	Main
17	NMED NNEPA	67SanJua096.3 10SANJUANR37	EPA SJLP (196.87)	36.73588701	-108.2539868	San Juan River DS of the Animas confluence	Main
18	NMED	67SanJua088.1 (SJLION)	EPA LVW-030 (204.48)	36.722136	-108.325619	San Juan River at Lions Park near Kirtland	Main
19	NMED	64Galleg000.4		36.695866	-108.1125	Gallegos Canyon at San Juan River	Tributary to SJ
20	NMED	67LaPlat002.3		36.75252	-108.24047	La Plata River at Farmington City Park	Tributary to SJ
21	NMED	67LaPlat024.8		36.9289	-108.184698	La Plata River at La Plata, NM	Tributary to SJ
22	NMED	67Steven000.7		36.744115	-108.400245	Stevens Arroyo below CR 6100	Tributary to SJ
23	NNEPA	10SANJUANR38	EPA SJFP (214.43)	36.7482	-108.41163	San Juan River upstream from PNM fish passage	Main
24	NNEPA	NNEPA-10SANJUANR25	EPA SJHB (227.66) USGS 364446108321510 (227.61)	36.7454628	-108.5378488	San Juan River @ the bottom of the Hogback fish passage	Main
25	NNEPA	10HOGBACKC4 2	see above	36.74632	-108.54147	Hogback Canal between head gate and first waste way	CANAL
26	NNEPA	06CHACORIV04	None	36.76674	-108.64237	Chaco River near mouth	Tributary to SJ

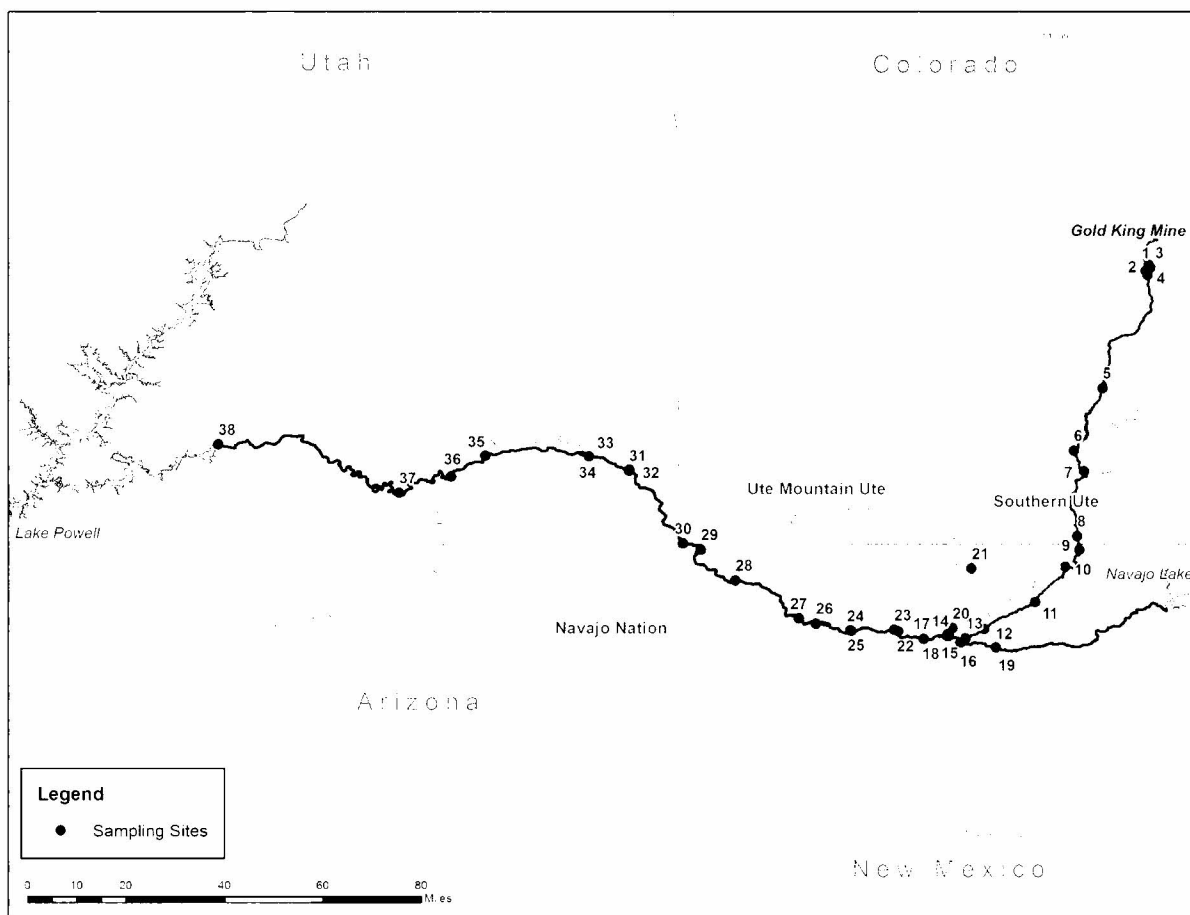
**Table 1. List of Sampling Locations**

Index	Nominating Jurisdiction	Site ID	Nearby Sampling Locations	Latitude	Longitude	Description/Location	Site Type
27	NNEPA	10SANJUANR36	EPA SJSR (246.34) USGS 09368000 (246.12)	36.78157	-108.69281	San Juan River at Shiprock bridge	Main
28	NNEPA	10SANJUANR26	EPA SJDS (272.48)	36.89325249	-108.8785948	San Juan River 15 miles downstream from Shiprock	Main
29	NNEPA	07MANCOSRIO 1	None	36.98314479	-108.9797495	Mancos River near mouth	Tributary to SJ
30	UDEQ NNEPA	UDEQ 4954000 NNEPA- 02SANJUANR06	EPA SJ4C (295.83) UMUT SJ-4C (298.49) USGS 09371010 (298.53)	37.001755	-109.032726	San Juan River at US160 Xing in CO	Main
31	NNEPA	NNEPA 02SANJUANR09	EPA SJME (333.21)	37.215946	-109.192054	San Juan River at McElmo Wash	Main
32	UDEQ NNEPA	UDEQ 4953880 NNEPA 04MCELMOCRO 1	EPA MECT (332.89)	<b>37.21868389</b>	<b>-109.1904117</b>	McElmo Creek at Highway U262 Xing	Tributary to SJ
33	UDEQ NNEPA	UDEQ 4953990 NNEPA 02SANJUANR07	EPA SJMC (345.80)	37.257788	-109.30975	San Juan River at U262 Xing Phillips Camp Road Xing (San Juan River at Town of Montezuma)	Main
34	UDEQ	4953560	EPA SJMC (345.80) NNEPA-02SANJUANR07 (345.80)	37.272086	-109.327694	Montezuma Creek at U163 Xing	Tributary to SJ
35	UDEQ NNEPA	UDEQ 4953250 NNEPA 02SANJUANR08	EPA SJBB (377.62)	37.26027863	-109.6137343	San Juan River at Sand Island or San Juan at Bluff Bridge	Main
36	UDEQ NNEPA	UDEQ 4953020 NNEPA 01CHINLECR27	None	37.199119	-109.715572	Chinle Creek Above Confluence with San Juan River	Tributary to SJ
37	UDEQ NNEPA	UDEQ 4953000 NNEPA 29SANJUANR05	EPA SJMH (421.33) USGS 09379500 (420.92)	37.150758	-109.867672	San Juan River at Mexican Hat US163 Xing	Main
38	UDEQ	4952942	EPA SJCH (510.74)	37.293008	-110.399621	San Juan River at Clay Hills boat ramp	Main
39 *	Arizona	CGCLR713.70	Boat Ramp	36.921667	-111.483611	USGS Gage 09379910 at Lees Ferry	CO River

**Key to jurisdictions:** CDPHE = Colorado Department of Public Health and Environment; SUIT = Southern Ute Indian Tribe; NMED = New Mexico Environment Department; NN = Navajo Nation; UDEQ = Utah Department of Environmental Quality; Arizona = Arizona Department of Environmental Quality.

Site 39 was not sampled as part of the fall 2020 water quality and sediment sampling event due to the COVID-19 Pandemic and the need to limit crew times in the field. During Option Period 3, this site will be re-evaluated to determine continued need and inclusion in future sampling events.

**Figure 2. Location of sampling sites within the San Juan Watershed.**



The contractor will follow the Long-Term Monitoring Plan and QAPP that was developed under a separate contract.

In year 1, the contractor will be responsible for working with EPA to develop a standardized field form for water chemistry and sediment. The contractor shall work with the EPA to ensure that a unique identifier (site ID) is created. The contractor will be responsible for providing field forms. Should the contractor be tasked with using an EPA-developed standardized field form for activities such as physical habitat assessment and benthic macroinvertebrate sampling, EPA will provide the paper field forms for the specific field activity. The contractor shall submit a pdf of the form via email to EPA.

As another step in ensuring that all crews consistently apply the field protocols, EPA will arrange for training in the protocols outlined in the QAPP and an assistance visit (AV) during the crew's initial sampling visits. AVs will be conducted by EPA staff who have attended an EPA-sponsored training or served as trainers. By having AVs early, the crew can incorporate corrective actions into sampling at the majority of their assigned sites.

## **II. PURPOSE**

The purpose of this task order is to provide field sampling support to the EPA Office of Water in implementing the San Juan Watershed Long-Term Monitoring Plan. In particular, the contractor will schedule and deploy field crews to collect samples and observational data at selected sites in the San Juan Watershed. The contract field crews shall adhere to strict quality assurance and quality control (QA/QC) requirements, including attendance at a training provided by EPA; use of appropriate supplies and equipment; adherence to all shipping and logistical procedures; participation in quality assurance assistance visits; and adherence to data reporting requirements and deadlines as outlined in the long-term monitoring plan and QAPP.

## **III. GOVERNMENT FURNISHED INFORMATION**

The EPA TOCOR will provide the following references via email.

- Reference 1: San Juan Watershed: Long-Term Monitoring Plan for Surface Water, Sediment, and Biology – DRAFT
- Reference 2: Quality Assurance Project Plan for the San Juan Watershed: Long-Term Monitoring Plan for Surface Water and Sediment (QAPP) – DRAFT
- Reference 3: Quality Assurance Project Plan for the San Juan Watershed: Long-Term Monitoring Plan for Biology (QAPP) – DRAFT
- Reference 4: NRSA 2013-2014 Field Forms
  - For field activities during which EPA National Rivers and Streams Protocols are employed, such as physical habitat assessment and benthic macroinvertebrate sampling, , EPA will provide the contractor with paper forms during the task order's period of performance. The contractor shall work with the EPA to ensure that a unique identifier (site ID) is created.

During the period of performance, EPA will provide the contractor with:

- Training for the contractor's field crews in the summer of 2018 and spring of 2019.

## **IV. GENERAL REQUIREMENTS**

In providing support under the tasks described in Section V, the contractor also shall adhere to the following general requirements:

1. Deliverables (see Contract PWS B.1)

Memoranda shall be placed on company letterhead and the subject line shall include the phrase “EPA Contract EP-C-16-0XX”. When transmitting deliverables by email, subject headers should include the contract, task order, and deliverable description (e.g., “EP-C-16-0XX TO X: QAPP Signature Pages”).

All electronic files shall be clearly named using the San Juan Watershed abbreviation, a logical abbreviation for the name of the document (e.g., QAPP), the contractor name (abbreviated), and the date of edits to assist in version control (e.g., SJW18\_QAPP\_XX\_YYYYMMDD). Final versions shall be provided to EPA in both the original format (e.g., Word, PowerPoint) and PDF versions (if necessary, EPA will modify the files to be Section 508 compliant).

Unless specified differently by the EPA TOCOR in technical direction (per Contract Clause H.12), the contractor shall ensure that documentation is created using Agency standard software formats (e.g., Microsoft Office) to facilitate EPA use and review.

2. Meetings (see Contract Clause C.2)

Contractor personnel shall always identify themselves as contractor employees by name and organization and physically display that information through an identification badge. Contractor personnel are prohibited from acting as the Agency’s official representative. The contractor shall refer any questions relating to the interpretation of EPA policy, guidance, or regulation to the TOCOR.

## V. SCOPE OF WORK

**Task 1. Monthly progress reports** (See Contract Attachment 3; PWS C.3)

The contractor shall manage the Task Order (TO) and submit monthly progress and financial reports prepared and submitted in accordance with the contract clause, Attachment 3, Reports of Work. The monthly progress and financial reports shall be broken out by task. The monthly progress report shall include project status, number of sites sampled (current and cumulative), identify sites sampled during the reporting period, unexpected problems or concerns, lessons learned, QA/QC activities, and next steps. The contractor also shall brief the TOCOR on progress during periodic (e.g., weekly) teleconferences during periods of intense activity.

**Deliverables and Schedule under Task 1:**

Task	Deliverable	Due
1	Progress and financial reports	Monthly
	Calls with EPA	Per technical direction (per Contract Clause H.12)

**Task 2. Quality Assurance** (Contract PWS B.2, C.1.g)

Quality Assurance (QA) is an important component of EPA’s work to assure that minimum quality standards are attained. The contractor shall address the QA requirements of this task order by adhering to the requirements and procedures identified in:

- The contractor's customized Quality Management Plan incorporated into this NARS contract;
- San Juan Watershed Long-Term Monitoring Plan QA documents which document how quality assurance and quality control will be applied to the collection of environmental data for the survey. The documents relevant to support in this task order are:
  - Quality Assurance Project Plan for the San Juan Watershed: Long-Term Monitoring Plan for Surface Water and Sediment
  - Quality Assurance Project Plan for the San Juan Watershed: Long-Term Monitoring Plan for Biology
  - San Juan Watershed: Long-Term Monitoring Plan for Surface Water, Sediment, and Biology

As demonstration of the contractor's:

- a. Commitment to adhere to the San Juan Watershed QAPPs, the contractor shall:
  - Ensure that all sampling personnel have reviewed and understand the requirements and procedures of the San Juan Watershed QAPPs, and Long-Term Monitoring Plan, which will be available prior to the field crew training session. The certification page entitled "Review & Distribution Acknowledgment and Commitment to Implement" is located in the introductory section of the QAPPs.
  - At a minimum, the following personnel shall sign the certification page for the QAPPs approved by EPA's Quality Assurance Officer:
    - Contractor's Task Order Leader
    - Contractor's Quality Assurance Officer,
    - **The crew leader must provide the signed certification page before the crew may commence with sampling events.**
  - At the contractor's discretion, it may also be appropriate for each field crew member to sign the certification page and transmit to EPA.
  - The contractor's QAO also shall sign the certification page for each revision of the QAPP that has been approved by EPA's QAO.
  - If EPA distributes updated versions of the QA documents and states that it contains a "significant change" relevant to field sampling, the contractor shall acknowledge, in writing (e.g., Email), that it has received and distributed the revised QA documents and other documents as necessary to the appropriate personnel. If any change will impact the scope and/or cost of the task order, the contractor shall notify the TOCOR and CO immediately.
- b. **Additional Key Personnel (EPAAR 1552.237-72) field crew leader (Task 7).** At a minimum, the field crew leader shall have at least three years of experience in leading field crews; and at least three years of experience in collecting water and sediment samples and conducting physical habitat sampling from rivers or streams; and experience collecting flow measurements using handheld flow measuring devices.
- c. **Permit EPA to perform an AV of its field crews during an early sampling event (e.g., the first sampling event by a crew, if possible).** The contractor shall coordinate

with EPA, or its designee, on an agreed upon date and location for the AV. EPA will conduct the AV using a checklist provided by EPA, supplemented by photographs if appropriate (e.g., to record a deviation in methods due to extenuating circumstances). Although EPA will arrange for the AVs, it is the contractor's responsibility to ensure that the contractor field crew is abiding by the requirements and procedures of the QAPP. Should a new crew leader or crews be assigned to this work, it is the contractor's responsibility to reach out to EPA to coordinate with EPA to perform an AV of the new field crew.

- b. Implementation of QA in performing the other tasks in this PWS, the contractor shall document its QA activities as follows:
- Reports of relevant QA activities in any deliverable. All QA documentation prepared under the task order shall be considered non-proprietary, except for the internal distribution list which may be claimed proprietary.
  - Monthly reports of QA activities performed during implementation of this task order. These monthly QA reports shall identify QA activities performed to support implementation of this task order, problems encountered, deviations from the San Juan Watershed QAPPs, and corrective actions taken. The contractor shall include the QA report with the monthly progress report. In addition, the contractor shall immediately bring to the attention of the TOCOR any QA problems that may affect the conduct of the tasks or the project, with recommendations for corrective actions.
- c. Commitment to continuous quality improvements, the contractor shall provide summaries of "lessons learned" based upon its support to the other tasks. EPA will use this information to improve future monitoring conducted under the San Juan Watershed Monitoring Program. The contractor shall incorporate EPA comments into revised versions.

**Deliverables and Schedule under Task 2:**

Task	Deliverable	Due
2	Signature page for each version of QAPP approved by EPA's QAO:	
	- With contractor's QAO and Task Order Leader signatures.	- No later than 5 working days after receiving the approved QAPP with EPA QAO's signature
	- With crew leader signature	- At training
	Email acknowledgement of QA documents with "significant change"	No later than 10 working days after receiving revised QA document

Task	Deliverable	Due
2	Memo with qualifications of field crew members, other than the field crew leader	With first draft of the schedule for field crew for the schedule outlined in the long-term monitoring plan. Unless circumstances change unexpectedly, qualifications of replacements, except key personnel, must be submitted at least one week prior to the sampling event. See key personnel clause for process for replacements through a task order modification.
2	Email with outcome of testing field forms with any recommended changes (applicable to EPA-provided forms, only)	5 working days after receiving the first electronic/paper version of field forms. 1-5 working days after receiving subsequent versions, depending on extent of revision and schedule implications.
2	Access to contractor's calibration and maintenance records	Within 5 working days after receiving technical direction (per Contract Clause H.12)
2	Allow access for EPA or its designee to conduct an assistance visit to each field crew	Per technical direction (per Contract Clause H.12), based upon scheduling discussions occurring prior to the crews first sampling event
2	Documentation of QA activities	In deliverables
2	Monthly reports of QA activities	With monthly progress report
2	Memorandum 1 with lessons learned for 2018 data collection	April 15, 2019. Revisions within 5 work days.
	Memorandum 2 with lessons learned for 2019 data collection	April 15, 2020. Revisions within 5 work days.
	Memorandum 3 with lessons learned in 2020 data collection	April 15, 2021. Revisions within 5 work days.

### **Task 3. Field Training: Work Completed. No field training will occur in Option Period 3**

EPA will host a San Juan Watershed training session during the summer of calendar year 2018 and fall of calendar year 2019. For purposes of preparing the proposal response, the contractor shall use Golden, Colorado as the training site, which is near the Region 8 lab. The fall 2019 training will coincide with the late summer / early fall routine sampling event. The training will provide detailed instructions on the prescribed sampling methods for the San Juan Watershed long-term monitoring plan participants. The training may include up to three 2-hour webinars (e.g., overview and forms) and up to 1 to 2 days of combined classroom and field training. It is

preferable that all crew members participate in training activities, but at a minimum the contractor shall ensure that the field crew leader participate in a training session unless the EPA TOCOR issues technical direction (per Contract Clause H.12). The contractor shall report out, each month, on any associated training costs (e.g., travel and LOE) broken out by training using the template provided by the EPA TOCOR.

1. Deliverables and Schedule under Task 3:

Task	Deliverable	Due
3	Attend training	Prior to first sampling event
3	Report out on costs associated with attending EPA Long-Term Monitoring Program trainings	With monthly progress report

**Task 4. Pre-Sampling Site Evaluation** (See Contract PWS C.1)

Table 1 identifies the sampling sites assigned to the contractor.

As part of the evaluation process, the contractor shall obtain the proper collection permit and/or landowner permission to sample sites, where necessary. It is imperative for the integrity of this long-term monitoring program that a thorough effort is made to gain permission to sample sites. For each field season, the contractor shall provide a summary of the permits that includes the following information:

- Site ID
- Name of Refuge/Park/Authority
- Agency
- Contact Information (for Agency)
- Date Approved (if available)
- Permit Number

Additionally:

- a. Unless directed otherwise by the TOCOR, the field crew shall provide notification to the TOCOR of a site not sampled and to determine if there is a replacement site.
- b. If the land is under control of a Tribe, the contractor shall receive prior approval from the EPA TOCOR **prior** to contacting any Tribal representatives or sampling the site.
- c. If the permit or any other requirements conflict with the study protocols, the contractor shall notify the EPA TOCOR who will decide whether the site should be retained or replaced.

#### Deliverables and Schedule under Task 4:

Task	Deliverable	Due
4	Summary of Permits	One month prior to the end of performance for the base period and OP1, and OP2.
	Email identifying Indian Tribe ownership of site	Within 2 working days of identification. (This notification is critical.)
	Email describing conflicts with study protocols	Within 2 working days of identification.

#### Task 5. Schedule (See Contract PWS C.2)

In Option Period 1, due to an unforeseeable dry fall, the contractor was not able to complete the scheduled stormwater sampling.

In Option Period 2, due to the COVID-19 pandemic, the contractor was not able to complete the scheduled May and June routine sampling events, the stormwater sampling event, and the physical habitat and benthic macroinvertebrate sampling during the fall 2020 water quality and sediment sampling event.

The purpose of the schedule is to ensure that the contractor **will sample sites during each of the hydrologic periods identified by the jurisdictions. See Table 2.** Prior to the start of each field season, EPA will provide details to the contractor regarding any priorities that must be taken into account in establishing the schedule (number of sites, order of sampling for specific years). As needed, the TOCOR shall issue technical direction related to this information. The contractor shall provide the following:

- a. Before the start of each field season, the contractor shall provide EPA with the first draft with tentative sampling dates and crew assignments for all sites. Throughout the monitoring schedule, the contractor shall revise the schedule to incorporate the EPA TOCOR's technical direction (per Contract Clause H.12) or mitigating factors, including, but not limited to, weather, field crew changes, and unanticipated delays.
- b. To support EPA's review of the draft schedule and revisions that affect early season sampling events, the contractor shall provide a written assessment of the expected conditions at the sites scheduled to be sampled prior to each hydrologic period sampling event. Only after receiving technical direction (per Contract Clause H.12) that approves the draft schedule and any revisions for sampling in May and June, shall the contractor arrange for travel to sites on the approved list. The contractor is responsible for providing EPA with a schedule of the sampling locations one week in advance of traveling to the field to conduct the work. Furthermore, the contractor shall be responsible for providing notice to jurisdictional authorities within two weeks prior to sampling on applicable jurisdictional sites. The contractor shall be responsible for providing notice to the lab within 30 days of the shipment of samples to be analyzed. This includes completing and submitting the requested forms and information.

<b>TABLE 2. BASE PERIOD AND OPTION PERIODS 1, AND 2, AND 3 SAMPLING AND MONITORING PARAMETERS AND TIMELINE.</b>					
<b>SAMPLING AND MONITORING SCHEDULE</b>	<b>FEBRUARY OR MARCH</b>	<b>MAY</b>	<b>JUNE</b>	<b>STORM EVENT JULY TO SEPT</b>	<b>AUGUST OR SEPTEMBER</b>
<b>BASE PERIOD</b> (AWARD DATE TO JANUARY 31, 2019)				<b>X (2018)</b>	<b>X (2018)</b>
<b>OPTION PERIOD 1</b> (FEBRUARY 1, 2019 TO JANUARY 31, 2020)	<b>X (2019)</b>	<b>X (2019)</b>	<b>X (2019)</b>	<b>X (2019) – NOT COMPLETED DUE TO UNFORESEEABLE DRY FALL</b>	<b>X (2019)<sub>2</sub></b>
<b>OPTION PERIOD 2</b> (FEBRUARY 1, 2020 TO JANUARY 31, 2021)	<b>X (2020)</b>	<b>X (2020)</b>  <b><u>2020 SAMPLING NOT COMPLETED DUE TO COVID-19 PANDEMIC</u></b>	<b>X (2020)</b>  <b><u>2020 SAMPLING NOT COMPLETED DUE TO COVID-19 PANDEMIC</u></b>	<b>X (2020) – NOT COMPLETED DUE TO COVID-19 PANDEMIC</b>	<b>X (2020)<sub>2</sub></b> <b><u>ONLY WATER QUALITY AND SEDIMENT SAMPLING COMPLETED. DID NOT COLLECT PHYSICAL HABITAT AND BENTHIC MACROINVERTEBRATE SAMPLES</u></b>
<b>OPTION PERIOD 3</b> (FEBRUARY 1, 2021 TO JUNE 30, 2022)	<b><u>X (2021)</u></b>	<b><u>X (2021)</u></b>	<b><u>X (2021)</u></b>	<b><u>X (2021) – NOT COMPLETED DUE TO COVID-19 PANDEMIC</u></b>	<b><u>X (2021)<sub>2</sub></u></b>
<b>HYDROLOGIC PERIOD TO CAPTURE</b>	Winter Low Flow	Spring Runoff (Rising Limb)	Spring Runoff (Peak Limb)	Monsoons	Late Summer Base Flow
<b>WATER COLUMN - dissolved and</b>	1 event	1 event	1 event	1 event	1 event

total metals <sup>1</sup> , dissolved organic carbon (DOC), total organic carbon (TOC), alkalinity, total suspended solids (TSS), total and dissolved hardness, sulfate, chloride					
<b>SEDIMENT</b> – total metals <sup>1</sup> , TOC, grain size	1 event	1 event	1 event		1 event
<b>NUTRIENTS</b> – total nitrogen, total phosphorus	1 event	1 event	1 event	1 event	1 event
<b>BACTERIA</b> – E. COLI	1 event	1 event	1 event		1 event
<b>FIELD PARAMETERS</b>	All sampling events will include field parameters (pH, temperature, dissolved oxygen, specific conductance and turbidity) measured with a data probe/sonde type instrumentation.				
<b>FLOW</b>	Provided via the nearest USGS gaging stations. Flow will be collected at Animas at Bakers Bridge, McElmo Creek, Chinle, Montezuma, Chaco River, and Mancos River.				

<sup>1</sup> Aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, chromium III, chromium VI, cobalt, copper, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, potassium, selenium, silver, sodium, strontium, thallium, uranium, vanadium, and zinc

<sup>2</sup> In Option Periods 1 and ~~3~~2, this sampling event will also include physical habitat and benthic macroinvertebrate sampling at select locations outlined in Appendix A in the Quality Assurance Project Plan for the San Juan Watershed: Long-Term Monitoring Plan for Biology. (see Table 3 below). Due to the COVID-19 Pandemic the physical habitat and benthic macroinvertebrate sampling was not completed

**Table 3. Sampling and Monitoring Schedule for Option Periods 1, ~~and 2~~, and 3**

<b>SAMPLING AND MONITORING SCHEDULE:</b>	OPTION PERIODS 1, <u>2</u> AND <del>2-3</del> (see Table 2 above)
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<b>HYDROLOGIC PERIOD TO CAPTURE:</b>	Base Flow – Late Summer to early Fall (see Table 2 above)
<b>BENTHIC MACROINVERTEBRATE</b>	14 Locations. See Table 5 in Quality Assurance Project Plan for the San Juan Watershed: Long Term Monitoring Plan for Biology
<b>PHYSICAL HABITAT</b>	13 Locations. See Table 5 in Quality Assurance Project Plan for the San Juan Watershed: Long Term Monitoring Plan for Biology
<b>FIELD DOCUMENTATION &amp; PHOTOGRAPHS</b>	14 Locations. See Table 5 in Quality Assurance Project Plan for the San Juan Watershed: Long Term Monitoring Plan for Biology
Biological sampling to occur concurrent with physical-chemical sampling	

#### **Deliverables and Schedule under Task 5:**

<b>Task</b>	<b>Deliverable</b>	<b>Due</b>
5.a	First draft of sampling schedule	First draft due April 1, 2018 or later per technical direction (per Contract Clause H.12). Revisions per technical direction (per Contract Clause H.12). Revisions are required until the field sampling is complete.
5.b	Assessment of sites scheduled prior to each sampling event.	30 days prior to each field sampling event or later per technical direction (per Contract Clause H.12). Revisions per technical direction (per Contract Clause H.12)
5.c	Notification of site conditions if they are not conducive to sampling	As soon as possible per availability of phone or email access.

#### **Task 6. Preparation for Field Sampling (See Contract PWS C.2)**

In Option Period 1, due to an unforeseeable dry fall, the contractor was not able to complete the scheduled stormwater sampling.

The contractor shall prepare for field sampling visits as follows:

- a. The contractor shall be responsible for providing consumable materials as described in the QAPPs and the Standard Operating Procedures. These materials include but are not limited to sampling containers, and sampling equipment, e.g., filters for dissolved samples, preservatives, Teflon scoops, shipping materials.

- b. The contractor shall be responsible for arranging for and supply vehicles, staff, and all necessary non-consumable equipment to the field crews including, but not limited to, boats, safety equipment, multi-probes instrumentation, appropriate devices for electronic data capture (if applicable), storm water collection equipment such as ISCO samplers, and GPS devices.

**Deliverables and Schedule under Task 6:**

Task	Deliverable	Due
6.a	Consumable supplies	During field sampling visits
6.b	Supply equipment	During field sampling visits

**Task 7. Field Sampling Visits** (See Contract PWS C.2)

In Option Period 1, due to an unforeseeable dry fall, the contractor was not able to complete the scheduled stormwater sampling.

In Option Period 2, for the routine sampling events planned for September/October 2020, as well as in Option Period 3 for all routine sampling events planned, the contractor shall fill three additional pre-labelled 125 mL bottles for unfiltered (total) metals, filtered (dissolved) metals, and sulfate isotopes.

The contractor shall complete the field sampling visits during the periods identified in Table 2, unless the EPA TOCOR provides technical direction (per Contract Clause H.12) to sample outside these time periods. For each field sampling visit, the contractor shall adhere to EPA's specified sampling methods outlined in the Quality Assurance/Quality Control requirements described in the QAPPs and Standard Operating Procedures. The EPA Region 7 and Office of Research and Development (additional 3 125mL bottles added in Option Period 2 and 3) labs will be responsible for all analysis. As mentioned in Task 8, the contractor will be responsible for coordinating with the Region 7 and Office of Research and Development labs and adhering to their processes. The contractor shall provide the following:

- a. To record observations and sample information, the contractor shall use standardized field forms on paper. The contractor will be responsible for providing field forms. Should the contractor be tasked with using an EPA-developed standardized field form for activities such as physical habitat assessment and benthic macroinvertebrate, EPA will provide the paper field forms for the specific field activity. If the contractor is using a hard copy, the contractor shall submit a pdf of the form via email to EPA.
- b. Prior to sample shipment, the contractor shall coordinate with the lab conducting the analysis and obtain information on the chain-of-custody (COC) form provided by the lab. The contractor then shall ship samples to the analytical laboratory.

**Deliverables and Schedule under Task 7:**

Task	Deliverable	Due
7a	Field Form for approval by the TOCOR	Two weeks prior to field sampling
7.b	Upload/Transmit forms and confirm transmittal/delivery was complete	As soon as possible (may vary depending on internet access and requirements in the 2017 FOM).
7.c	Ship samples and COC forms	Per QAPP.

**Task 8. Post-Sampling Activities**

In Option Period 1, due to an unforeseeable dry fall, the contractor was not able to complete the scheduled stormwater sampling.

In Option Period 2, due to the COVID-19 pandemic, the contractor was not able to complete the scheduled May and June routine sampling events, the stormwater sampling event, and the physical habitat and macroinvertebrate sampling in the fall of 2020.

The contractor shall perform any post-sampling requirements specified in permits. The contractor shall make field crews available to respond to EPA's post-sampling questions about the field sampling observations and procedures that might affect the data values and quality. If questions come from sources other than the EPA TOCOR (e.g., jurisdictions involved in this effort), contact the EPA TOCOR to coordinate the response or provide a summary by email (e.g., if the questions were posed through telephone conversations).

Unless the TOCOR grants an exception, the contractor shall refrain from publishing findings based upon work conducted under this task order. This restriction shall remain in effect until EPA provides public access to the data.

Once the EPA Region 7 and Office of Research and Development labs have completed the analysis, the contractor will receive the lab results in a Microsoft Excel compatible format. The contractor shall conduct a review of the lab results, coordinate with EPA to share the lab results with the jurisdictions, and upload the results into the Water Quality Portal via the Water Quality Exchange. If the lab provides the contractor with lab results in a format not compatible with the Water Quality Exchange, it will be the responsibility of the contractor to format the data in a compatible format. The contractor shall be responsible for ensuring that the water chemistry and sediment data is uploaded into WQX with the following information: Project ID Animas\_SanJuan\_Watershed; Project Name: Animas San Juan Watershed; and Project Description: Monitoring performed in the Animas and San Juan Watershed. For all benthic macroinvertebrate data and physical / habitat data, the contractor shall be responsible for coordinating with EPA to have this data uploaded into the National Aquatic Resource Survey IM database.

**Deliverables and Schedule under Task 8:**

<b>Task</b>	<b>Deliverable</b>	<b>Due</b>
8a	Confirmation that actions required by permits have been completed	With monthly progress report
8b	Email responding to data questions	Within 5 working days, if field crew is available. Otherwise, provide email within 5 days with expected response date.
8c	Conduct review of the lab results	Within 15 working days of receiving the file from the lab.
8d	Coordinate with EPA to share lab results with the jurisdictions	Within 5 days of completing the contractor review
8e	Upload all field in-situ surface water measurements, water chemistry and sediment chemistry lab results into the Water Quality Portal	Within 5 days of completing all reviews
8f	Assist EPA to upload habitat data into the National Aquatic Resource Survey database	Within 5 days of completing reviews

**Task 9. Meeting Support – Field Demonstration and Presentation**

The contractor shall provide support for the Water Resources Research Institute (WRRI) annual meeting that will focus on the San Juan Watershed Success and Challenges. This support shall include: participation in planning meetings; develop and deliver a field demonstration of the water quality and sediment sampling techniques to meeting participants, prepare and deliver a presentation on the San Juan Watershed monitoring program at the meeting. In addition, the contractor shall be available to discuss the San Juan Watershed sampling program during a technical exchange meeting with the states and tribes. This technical exchange will occur the day before the annual WRRI meeting held in Farmington, NM in June.

**Deliverables and Schedule under Task 9:**

<b>Task</b>	<b>Deliverable</b>	<b>Due</b>
9	Field demonstration of water quality and sampling techniques	June 2019

Task	Deliverable	Due
9	Presentation on San Juan Watershed monitoring program	June 2019

## TRAVEL

This section provides a summary of the travel requirements described in Section V. Assume each field crew contains 2 members. Here are assumptions to use in costing:

Task V.3 (Training) –

- All key personnel and crew members attend an EPA training prior to starting field sampling. (Actual training selected after award may differ from those used in this costing.). All training has been completed. No Training will occur in Option Period 3.

Task V.7 (Sampling) – for every site,

- One field crew of 2 to 4 members travel to the site dependent upon sampling activity (e.g. benthic macroinvertebrate and physical habitat sampling will require more than a 2- member crew).
- Total of 39 site visits for each of the hydrological periods with the exception of 15 site visits for the storm event period identified in Table 2 and 14 physical habitat/biological sampling sites, Task 5, Table 3. Note no storm event sampling occurred in 2020, and will not occur in 2021.
- Travel costs are minimized to the extent possible (e.g., combining nearby sites into one trip).

Task V.9 (Meeting Support) –

- One team member will travel to Farmington, NM. This work was completed in Option Period 1. Participation in this conference will not occur under Option Period 3.

## VI. Quality Assurance Surveillance Plan (QASP)

EPA will judge performance using the following Quality Assurance Surveillance Plan (QASP).

<b>Performance Requirement</b>	<b>Measureable Performance Standards</b>	<b>Surveillance Method</b>	<b>Incentives/Disincentives</b>
<p><b>Management and Communications:</b></p> <p>The Contractor shall maintain contact with the EPA TOCOR throughout the performance of the task order and shall immediately bring potential problems to the attention of the EPA TOCOR. In cases where issues have a direct impact on field sampling activities, project schedules (i.e., not each sampling event), cost, time, or quality, the contractor shall provide options for EPA's consideration on resolving the issues or mitigating their impacts.</p>	<p>Any issue adversely impacting project schedules, cost, time or quality shall be brought to the attention of the EPA TOCOR:</p> <p>i) If the contractor requires EPA guidance during a sampling event, the contractor must contact EPA prior to completing the sampling activities.</p> <p>ii) If the contractor identifies an issue that could affect multiple crews, the contractor shall contact EPA that day so that direction can be provided to all crews in the field.</p> <p>iii) If the contractor identifies sampling issues that are otherwise not urgent, the contractor shall contact EPA within 5 working days.</p>	<p>EPA TOCOR will identify unreported issues.</p>	<p>Four or more incidents where the contractor:</p> <ul style="list-style-type: none"> <li>• Does not provide timely notification; or</li> <li>• Created a severe adverse situation</li> </ul> <p>will be considered unsatisfactory performance and will be reported as such in the CPARS Performance Evaluation System under the category of <b>Management</b>.</p> <p>Fewer than four incidents where the contractor does not meet the measureable performance standard will be considered acceptable performance and will be reported as such in the CPARS Performance Evaluation System under the category of Management.</p>
<p><b>Completeness:</b></p> <p>Samples, site evaluation spreadsheets, tracking forms and</p>	<p>100% of the samples shall be transmitted in accordance with the QAPP protocols for shipping. Excessive breakage</p>	<p>100% of the lab delivery reports, spreadsheets, and field forms will be reviewed by the EPA TOCOR at the</p>	<p>10 or more incidents where the contractor does not meet the measureable performance will be considered unsatisfactory</p>

<b>Performance Requirement</b>	<b>Measureable Performance Standards</b>	<b>Surveillance Method</b>	<b>Incentives/Disincentives</b>
completed field sampling data forms shall be delivered in accordance with the requirements of the QAPP	<p>or spoilage will count as a failure of sample delivery, if breakage/spoilage is a result of failing to follow the QAPP protocols for shipping.</p> <p>No more than 10% of the spreadsheets and field sampling forms shall be submitted more than 5 working days past the requirements in the long-term monitoring plan. If the field form or spreadsheet has not been completed correctly, it will be considered a failure of completeness.</p>	end of each hydrologic sampling to compare actual delivery dates against the requirements in the QAPP and long-term monitoring plan.	<p>performance and will be reported as such in the CPARS Performance Evaluation System under the category of <b>Schedule</b>.</p> <p>Fewer than ten incidents where the contractor does not meet the measureable performance standard will be considered acceptable performance and will be reported as such in the CPARS Performance Evaluation System.</p>
<p><b>Cost Management and Control:</b></p> <p>The Contractor shall monitor, track, and accurately report cost and fee expenditures to EPA through progress reports and approved special reporting requirements. The Contractor shall assign appropriately leveled and skilled personnel to all tasks, practice and</p>	The contractor shall manage costs to the level of approved ceiling on the task order. The contractor shall notify the TOCOR, PO and CO when 75% of the approved funding ceiling for the task order is reached.	The TOCOR will compare actual versus projected expenditures on a monthly basis (via meetings, monthly progress reports & milestones established for each deliverable).	<p>Unsatisfactory rating under the category of <b>Cost Control</b> in CPARS when the contractor does not meet the measurable performance standards.</p> <p>An acceptable rating will be reported in the CPARS Performance Evaluation System under the category of Cost Control if the contractor meets the measureable performance standards</p>

<b>Performance Requirement</b>	<b>Measureable Performance Standards</b>	<b>Surveillance Method</b>	<b>Incentives/Disincentives</b>
encourage time management, and ensure accurate and appropriate cost control.			and accurately reports the costs.
<b>Technical Effort:</b> The Contractor shall assign appropriately leveled and skilled personnel to all tasks; and abide by the contractor's QMP, long-term monitoring plan, and QAPP.	No more than 25% of reviewed deliverables and data shall require revisions to meet the requirements.  All of the assigned staff must meet the requirements in the long-term monitoring plan, and QAPP.	100% of the data and staffing will be reviewed by the EPA TOCOR to identify noncompliance issues.	Unsatisfactory rating under the category of <b>Quality</b> in CPARS when the contractor does not meet the measurable performance standards during an applicable period of performance.

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 5	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00008		See Block 16C		See Schedule			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x) 9A. AMENDMENT OF SOLICITATION NO.			
ESS GROUP, INC. Attn: ROBERT ERICKSON 10 HEMINGWAY DR # 2 RIVERSIDE RI 02915							
				9B. DATED (SEE ITEM 11)			
				x 10A. MODIFICATION OF CONTRACT/ORDER NO.			
				EP-C-16-006			
				68HE0C18F0817			
				10B. DATED (SEE ITEM 13)			
				07/20/2018			
CODE 019131986		FACILITY CODE					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
See Schedule							
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
	D. OTHER (Specify type of modification and authority)						
X	Bilateral - FAR 52.232-22; Limitation of Funds						
<b>E. IMPORTANT:</b> Contractor <input type="checkbox"/> is not <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 019131986							
The Purpose of this Modification is to:							
1) Shift (b)(4) _____ and 2) Revise the Limitation of Funds clause for the Option Period 2 and Option Period 3 in accordance with the attached Recapitulation sheets.							
All other terms and conditions remain unchanged.							
TOCOR: Shera Reems Max Expire Date: 01/31/2022 InvoiceApprover: Shera Reems Alt Invoice							
App: Forrest John							
LIST OF CHANGES:							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				Sandra Stargardt-Licis			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
				ELECTRONIC SIGNATURE		04/29/2021	
(Signature of person authorized to sign)				(Signature of Contracting Officer)			

## CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
EP-C-16-006/68HE0C18F0817/P00008PAGE OF  
2 5NAME OF OFFEROR OR CONTRACTOR  
ESS GROUP, INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Reason for Modification: Funding Only Action Period Of Performance End Date changed from 31-JAN-21 to 31-JAN-22</p> <p>New Total Amount for this Version: (b)(4) New Total Amount for this Award: (b)(4) Incremental Funded Amount changed: (b)(4) (b)(4)</p> <p>CHANGES FOR LINE ITEM NUMBER: 3 Obligated Amount for this Modification: (b)(4) Incremental Funded Amount changed from \$0.00 to (b)(4)</p> <p>CHANGES FOR ACCOUNTING CODE: 19-E4-87FL-000BL7-2505-2087LE4002-001 Amount changed (b)(4)</p> <p>CHANGES FOR LINE ITEM NUMBER: 4 Obligated Amount for this Modification: (b)(4) Incremental Funded Amount changed (b)(4) (b)(4)</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 19-E4-87FL-000BL7-2505-2087LE4002-001 Beginning FiscalYear 19 Ending Fiscal Year Fund (Appropriation) E4 Budget Organization 87FL Program (PRC) 000BL7 Budget (BOC) 2505 Job # (Site/Project) Cost Organization DCN-LineID 2087LE4002-001 Quantity: 0 Amount: (b)(4) Percent: (b)(4) Subject To Funding: N Payment Address: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711</p> <p>Continued ...</p>				

NAME OF OFFEROR OR CONTRACTOR  
ESS GROUP, INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 07/20/2018 to 01/31/2022				

**Section A - Solicitation/Contract Form was revised as follows.**

Local Clauses EPA-B-32-101 LIMITATION OF FUNDS NOTICE

**Option Period 2**

(a) Severable services may be incrementally funded. Non-severable services shall not be incrementally funded. Pursuant to clause 52.232-22/Limitation of Funds, incremental funding in the amount of (b)(4) is allotted to cover estimated cost. Funding in the amount of (b)(4) is provided to cover the corresponding increment of fixed fee. The amount allotted for costs is estimated to cover the contractor's performance through 1/31/20201.

(b) When the contract is fully funded as specified in clause EPA-B-16-102/ Estimated Cost and Fixed Fee, then clause 52.232-20/Limitation of Cost shall become applicable.

(c) Recapitulation of Funds

**RECAPITULATION OF FUNDING TO DATE BY CONTRACT PERIOD**

**CONTRACT NO. EP-C-16-006**  
**TASK ORDER NO. 68HE0C18F0817**

**Option Period 2 - FROM 07/20/2018 through 01/31/2021**

<b>FUNDING ACTION</b>	<b>ESTIMATED COST</b>	<b>FIXED FEE</b>	<b>TOTAL COST PLUS FIXED FE</b>
P00005	(b)(4)	(b)(4)	\$ 322,281.00
P00008			\$ (174,534.43)
<b>Total Funded</b>			\$ 147,746.57
<b>Total Per Contract</b>			\$ 322,281.00
<b>Balance Unfunded</b>			\$ 174,534.43

Local Clauses EPA-B-32-101 LIMITATION OF FUNDS NOTICE

**Option Period 3**

(a) Severable services may be incrementally funded. Non-severable services shall not be incrementally funded. Pursuant to clause 52.232-22/Limitation of Funds, incremental funding in the amount of (b)(4) is allotted to cover estimated cost. Funding in the amount of (b)(4) is provided to cover the corresponding increment of fixed fee. The amount allotted for costs is estimated to cover the contractor's performance through 12/08/20201.

(b) When the contract is fully funded as specified in clause EPA-B-16-102/ Estimated Cost and Fixed Fee, then clause 52.232-20/Limitation of Cost shall become applicable.

(c) Recapitulation of Funds

**RECAPITULATION OF FUNDING TO DATE BY CONTRACT PERIOD**  
**CONTRACT NO. EP-C-16-006**  
**TASK ORDER NO. 68HE0C18F0817**

**Option Period 3 - FROM 02/01/2021 through 01/31/2022**

<b><u>FUNDING ACTION</u></b>	<b><u>ESTIMATED COST</u></b>	<b><u>FIXED FEE</u></b>	<b><u>TOTAL COST PLUS FIXED FEE</u></b>
P00007	(b)(4)	(b)(4)	\$ 75,000.00
P00008			\$ 174,534.43
<b>Total Funded</b>			\$ 249,534.43
<b>Total Per Contract</b>			\$ 292,580.00
<b>Balance Unfunded</b>			\$ 43,045.57

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>				1. CONTRACT ID CODE		PAGE OF PAGES	
						1 3	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
P00009		See Block 16C		PR-OW-21-00739			
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
CAD							
CAD US Environmental Protection Agency 26 West Martin Luther King Drive Mail Code: W136 Cincinnati OH 45268-0001							
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(x) 9A. AMENDMENT OF SOLICITATION NO.			
ESS GROUP, INC. Attn: ROBERT ERICKSON 10 HEMINGWAY DR # 2 RIVERSIDE RI 02915							
				9B. DATED (SEE ITEM 11)			
				x 10A. MODIFICATION OF CONTRACT/ORDER NO.			
				EP-C-16-006			
				68HE0C18F0817			
				10B. DATED (SEE ITEM 13)			
				07/20/2018			
CODE 019131986		FACILITY CODE					
<b>11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS</b>							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)				(b)(4)			
See Schedule							
<b>13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.</b>							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
X	D. OTHER (Specify type of modification and authority) EPA-B-32-101- Limitation of Funds Notice						
<b>E. IMPORTANT:</b> Contractor <input checked="" type="checkbox"/> is not <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)							
DUNS Number: 019131986							
The Purpose of this Modification is to:							
1) Incrementally fund Option Period 3; and 2) Revise the Limitation of Funds clause for the Option Period 3 in accordance with the Recapitulation sheets.							
All other terms and conditions remain unchanged.							
TOCOR: Shera Reems Max Expire Date: 01/31/2022 Invoice Approver: Shera Reems Alt Invoice App: Forrest John							
LIST OF CHANGES:							
Continued ...							
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				Kathleen Rechenberg			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
				Kathleen Rechenberg (Signature of Contracting Officer)		08/24/2021 (Signature of Contractor)	

## CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
EP-C-16-006/68HE0C18F0817/P00009PAGE OF  
2 3NAME OF OFFEROR OR CONTRACTOR  
ESS GROUP, INC.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Reason for Modification: Funding Only Action Total Amount for this Modification: \$0.00 New Total Amount for this Version: (b)(4) New Total Amount for this Award: (b)(4) Obligated Amount for this Modification: (b)(4) New Total Obligated Amount for this Award: (b)(4) Incremental Funded Amount changed: (b)(4) (b)(4) Contracting Officer changed from Sandra Stargardt-Licis  to Kathleen Rechenberg  CHANGES FOR LINE ITEM NUMBER: 4 Obligated Amount for this Modification: (b)(4) Incremental Funded Amount changed from (b)(4)  NEW ACCOUNTING CODE ADDED: Account code: 21-E4-87FL-000BL7-2505-2187LE4004-001 Beginning FiscalYear 21 Ending Fiscal Year Fund (Appropriation) E4 Budget Organization 87FL Program (PRC) 000BL7 Budget (BOC) 2505 Job # (Site/Project) Cost Organization DCN-LineID 2187LE4004-001 Quantity: 0 Amount: (b)(4) Percent: 0 Subject To Funding: N Payment Address:  Payment: RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711 Period of Performance: 07/20/2018 to 01/31/2022</p>				

**Section B - Supplies or Services/Prices was revised as follows.**

1 - Clauses was revised as follows.

**Summary of Clause Changes:**

Clause EPA-B-32-101 is incorporated as follows:

**Local Clauses EPA-B-32-101 LIMITATION OF FUNDS NOTICE**

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Option Period 3 - FROM 02/01/2021 through 01/31/2022			
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